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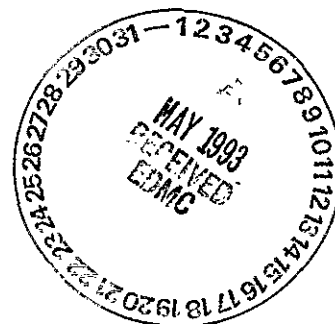
WHC-MR-0403-4

UC-600

Tri-Party Agreement Milestone Summary

February 1993

Date Published
March 1993



Prepared for the U.S. Department of Energy



**Westinghouse
Hanford Company**

P.O. Box 1970
Richland, Washington 99352

Hanford Operations and Engineering Contractor for the
U.S. Department of Energy under Contract DE-AC06-87RL10930

Approved for Public Release

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PREFACE

The *Tri-Party Agreement Milestone Summary* Report is issued monthly by the U.S. Department of Energy, Richland Field Office. This report provides a summary progress and financial status for each active *Hanford Federal Facility Agreement and Consent Order* (Tri-Party Agreement) major milestone and its related interim milestones that are active in the current 12-month period. Of the 245 planned interim milestones due by February 28, 1993, 241 were completed.

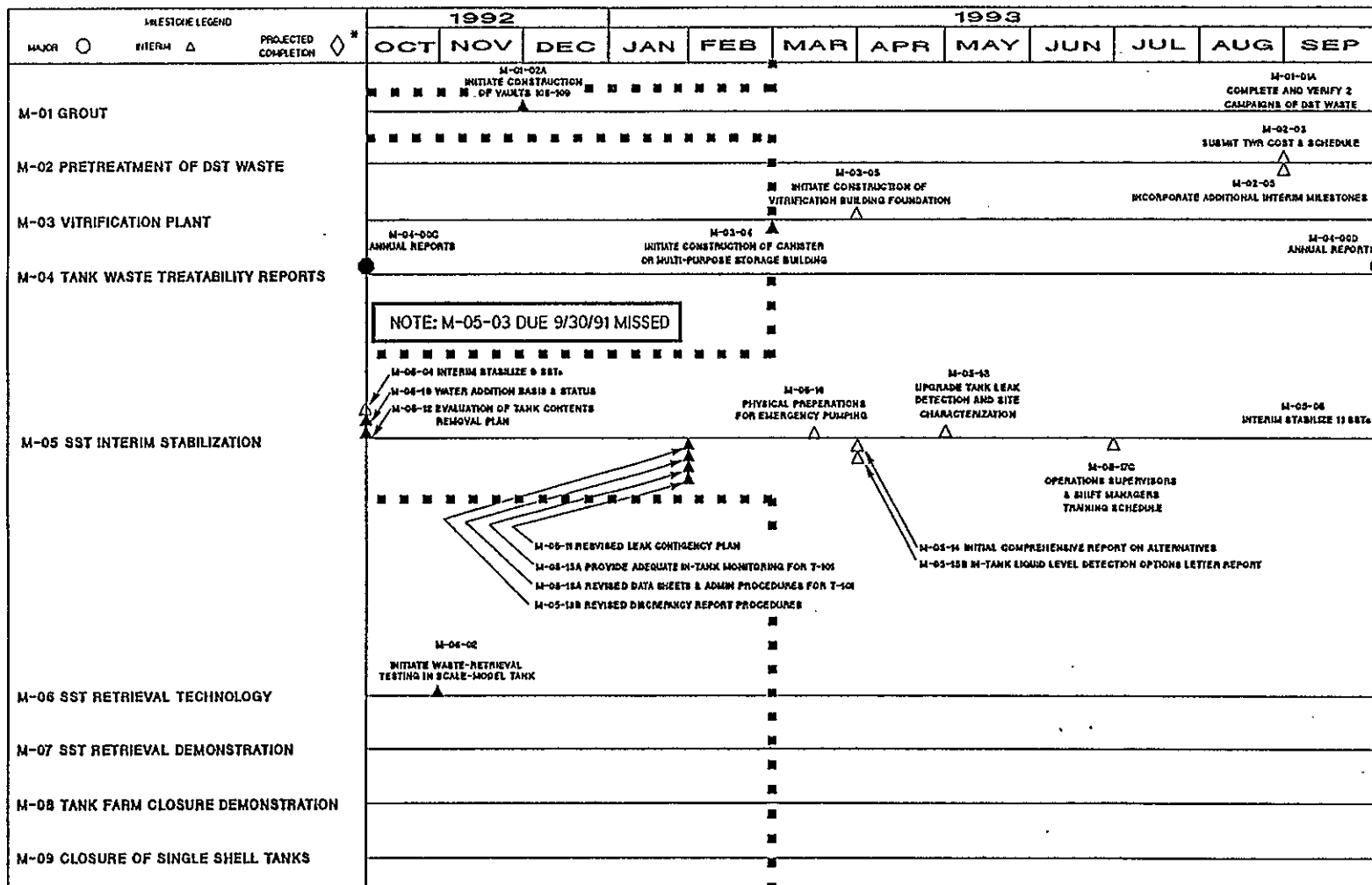
The following Tri-Party Agreement major milestones have been completed; therefore, they are not included in this report:

		<u>Completed</u>
M-12-00	Submit remedial investigation/feasibility study (RI/FS) or <i>Resource Conservation and Recovery Act</i> facility investigation/corrective measures study (RFI/CMS) work plans for 15 operable units.	6/30/92
M-21-00	Submit <i>Resource Conservation and Recovery Act</i> (RCRA) interim status compliance assessments for all treatment, storage, and disposal (TSD) units.	4/30/89
M-22-00	Established enforceable compliance action schedules.	12/29/89
M-23-00	Complete Interim Status Corrective Actions.	9/30/91
M-25-00	Provide annual reports of studies/efforts that are in progress to identify alternatives to land disposal of radioactive mixed wastes.	Deleted*
	*Deleted M-25-00 on March 31, 1992, and combined requirements with revised Tri-Party Agreement Milestone M-26-00.	
M-27-00	Submit all Aggregate Area Management Study Reports (AAMSR) for the 200 Area.	9/29/92
M-28-00	Submit all soils and groundwater background determination documents to U.S. Environmental Protection Agency (EPA) and Washington State Department of Ecology (Ecology).	4/30/92
M-29-00	Develop and submit documentation to EPA and Ecology describing Hanford Site risk assessment methodology.	3/31/92

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TPA MILESTONES

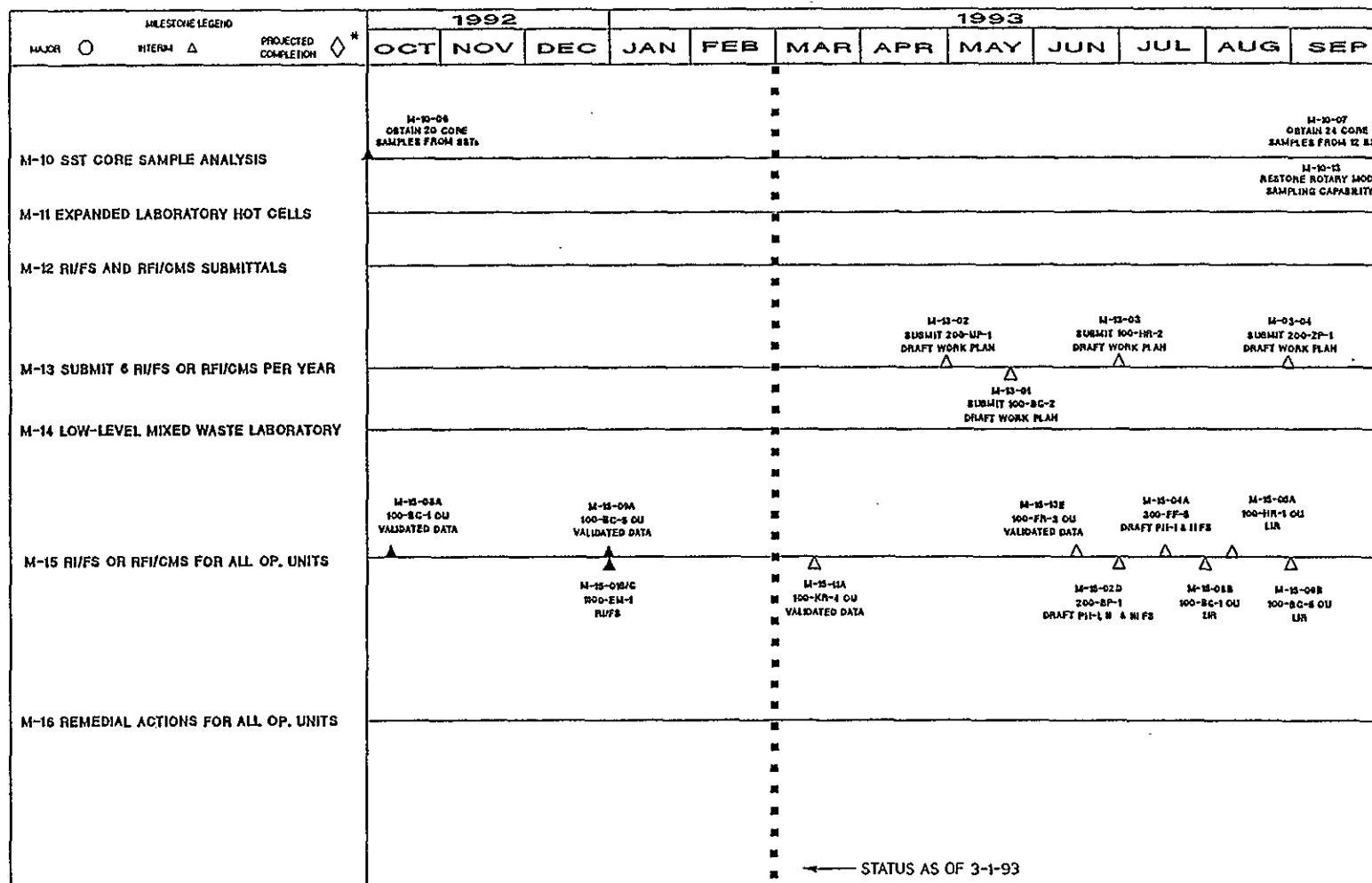
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STATUS AS OF 3-1-93

* PROJECTED MAJOR MILESTONE COMPLETION BASED ON FY 94 PLANNING CASE NOT FY 94 TARGET CASE

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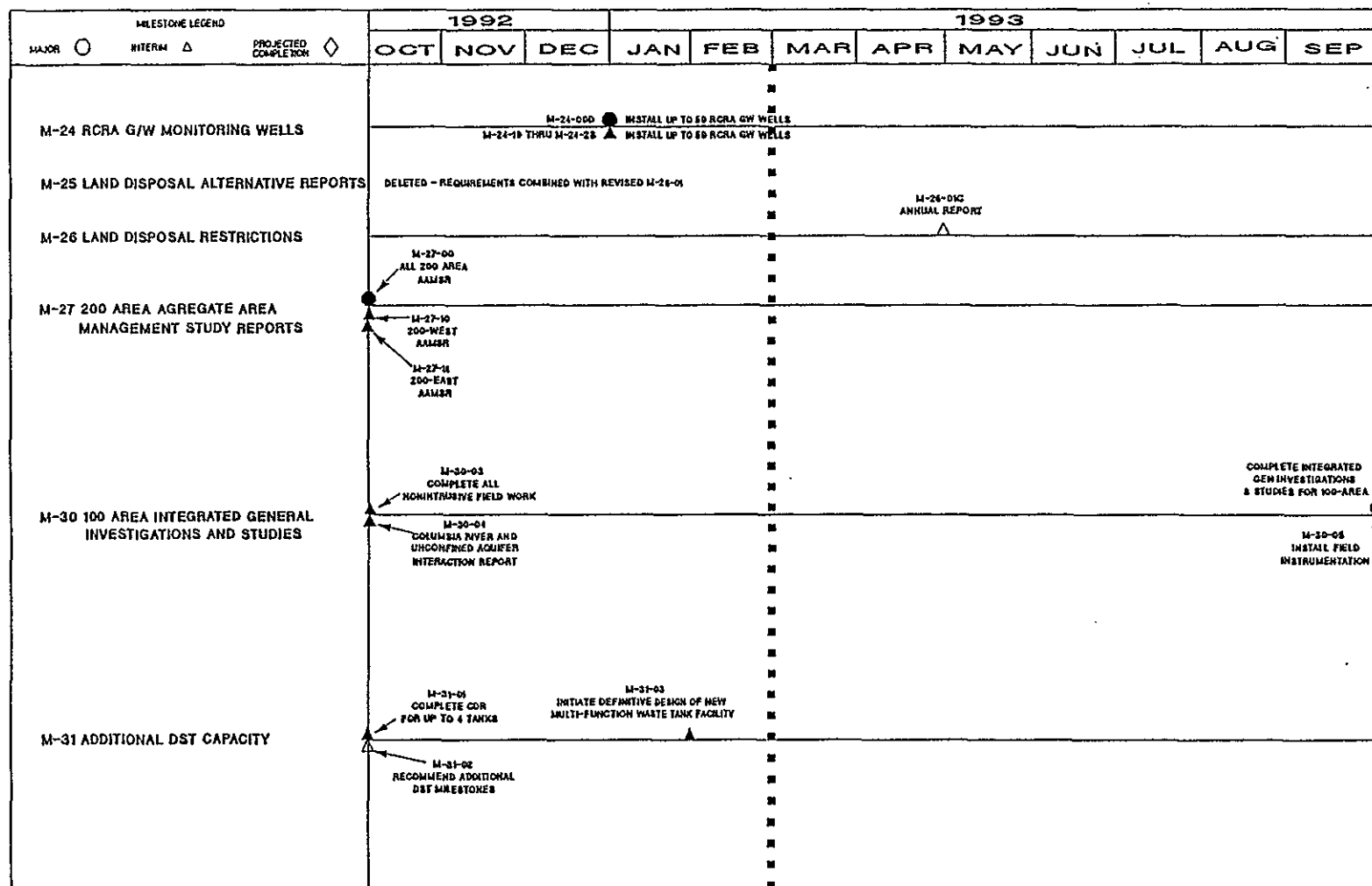
* PROJECTED MAJOR MILESTONE COMPLETION BASED ON FY 94 PLANNING CASE NOT FY 94 TARGET CASE

WHC-MR-0403-4

* PROJECTED MAJOR MILESTONE COMPLETION BASED ON FY 94 PLANNING CASE NOT FY 94 TARGET CASE
 ** WRAP 2B (TRU WASTE) DELAYED - WRAP 2A (LLW/RMW) PROJECTED TO BE COMPLETED AS SCHEDULED ON 9-30-99
 *** REQUEST TO WITHDRAW PART A DENIED; DISPUTE RESOLUTION STARTED.

TPA MILESTONES

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TRI-PARTY AGREEMENT BUDGET BASELINE SUMMARY FEBRUARY 1993

(\$ in Millions)

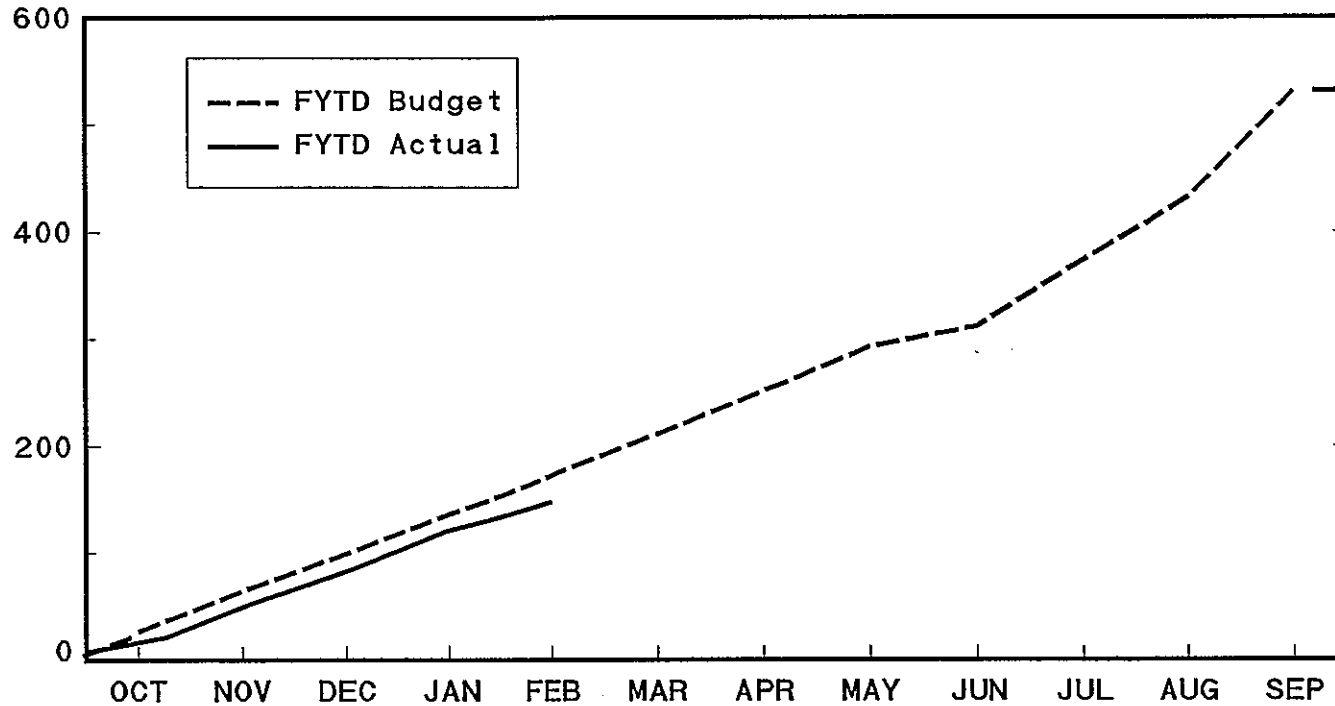
MAJOR MILESTONE		FYTD BUDGET	FYTD COST	SPENDING VARIANCE	ANNUAL BUDGET
M-00	*	8.0	6.9	1.1	27.5
M-01		15.2	12.5	2.7	37.8
M-02	*	6.3	5.0	1.3	36.7
M-03	*	54.4	39.5	14.9	141.3
M-04		0.0	0.0	0.0	0.2
M-05		1.8	1.1	0.7	7.9
M-06	*	1.4	1.0	0.4	2.8
M-07		1.4	1.3	0.1	5.1
M-08		1.1	0.6	0.5	2.9
M-09		3.2	3.0	0.2	5.8
M-10		9.6	8.7	0.9	20.4
M-11		4.7	3.4	1.3	12.5
M-12		0.3	0.2	0.1	0.6
M-13		0.4	0.2	0.2	1.6
M-14		2.4	4.5	(2.1)	10.2
M-15	*	29.9	27.2	2.7	88.5
M-16		4.3	3.8	0.5	14.5
M-17	*	16.2	17.3	(1.1)	86.6
M-18		3.1	4.2	(1.1)	6.6
M-19		2.1	1.8	0.3	3.1
M-20	*	4.0	2.5	1.5	10.2
M-24		0.5	1.4	(0.9)	3.0
M-26		0.0	0.0	0.0	0.1
M-30		1.0	1.0	0.0	3.6
M-31		2.8	2.5	0.3	4.0
		<u>174.1</u>	<u>149.6</u>	<u>24.5</u>	<u>533.5</u>

* These milestones include costs from other contractors.
All other milestones are WHC only.

TRI-PARTY AGREEMENT ALL MILESTONES

FY 1993

\$ Millions



WHC-MR-0403-4

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LIST OF TERMS

CY	calendar year
DST	double-shell tank
Ecology	Washington State Department of Ecology
EPA	U.S. Environmental Protection Agency
ERA	expedited response action
FY	fiscal year
HQ	U.S. Department of Energy, Headquarters
HWVP	Hanford Waste Vitrification Plant
LDR	land disposal restrictions
OU	operable unit
PSAR	preliminary safety analysis report
RCRA	Resource Conservation and Recovery Act
RFI/CMS	RCRA facility investigation/corrective measures study
RI/FS	remedial investigation/feasibility study
RL	U.S. Department of Energy, Richland Field Office
SST	single-shell tank
TBD	to be determined
Tri-Party Agreement	<i>Hanford Federal Facility Agreement and Consent Order</i>
TWRS	tank waste remediation system
WHC	Westinghouse Hanford Company
WRAP	Waste Receiving and Processing (Facility)
WSCF	Waste Sampling and Characterization Facility

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MAJOR MILESTONE: M-01-00
STATUS FOR END OF MONTH: FEBRUARY 1993

DOE DIRECTOR: G. H. Sanders

MANAGER: J. L. Epstein

BASELINE DATE: December 1996

PROJECTED DATE: To be determined (TBD)

DESCRIPTION: Complete 14 grout campaigns.

PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

Milestone	Description	Baseline	Projected*
M-01-01A	Complete and verify two campaigns of double-shell tank (DST) waste (including one campaign of phosphate-sulfate waste).	9/93	10/94
M-01-01B	Complete one additional campaign of DST waste (total is three campaigns including one phosphate-sulfate waste campaign).	12/93	TBD

*Projected date reflects Tri-Party Agreement Change Request M-01-92-01A.

ACCOMPLISHMENTS

- The U.S. Nuclear Regulatory Commission denied a petition submitted by the states of Washington and Oregon requesting formal rulemaking on incidental waste. This decision resolved programmatic uncertainties that have hindered grout milestone progress.

PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

- Complete fabrication of the core drill truck at Westinghouse Hanford Company (WHC) fabrication shops.
- Continue preparation of Draft *Grout Technology Plan*.
- Continue detailed design for Decontamination/Additive Module confinement basin.
- Continue modeling activities for base and sensitivity cases. Modeling has included variations in hydraulic properties of grout and the barriers and possible changes in hydraulic properties associated with crack size variation in the asphalt cocoon.
- Proceed with the evaluation of estimated toxic component exposure to support a Toxic Air Permit application to the Washington State Department of Ecology (Ecology).

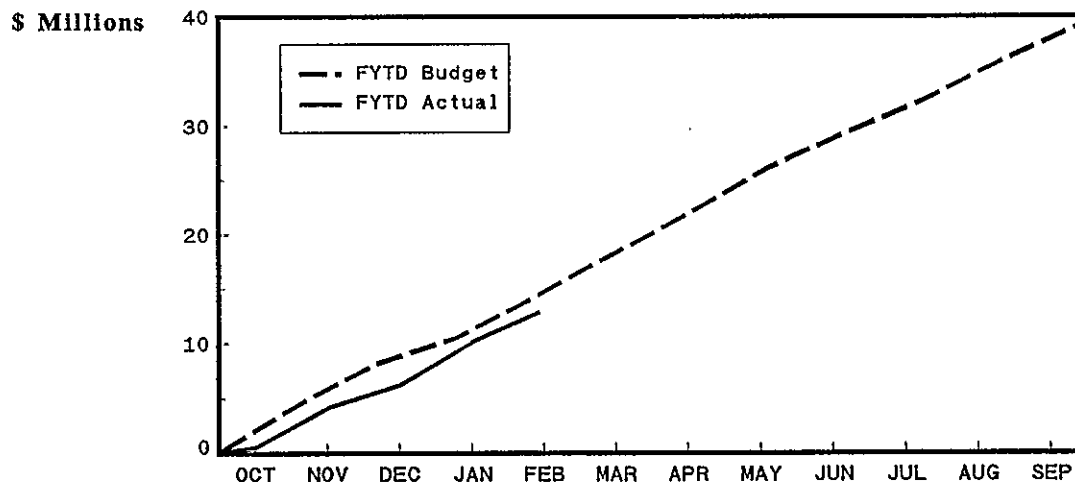
- Continue development of resource-loaded integrated schedules.
- Continue work on the *Double-Shell Tank Vault Closure Plan*, which addresses the impacts of gas generation and mitigation.
- Continue developing nondestructive testing techniques associated with vault 102.

MILESTONE STATUS/PROBLEMS/ISSUES

- In a letter to the U.S. Department of Energy, Headquarters (HQ) separate from the petition denial notification, the U.S. Nuclear Regulatory Commission encouraged HQ to develop and implement pretreatment technologies to remove additional radionuclides from the waste to be grouted.
- Reworking the Performance Assessment HQ Peer Review Panel Comments/Recommendations) has had a major impact on resources and meeting of milestones. This rework is the major driver for delaying Grout Treatment Facility *Hanford Federal Facility Agreement and Consent Order* (Tri-Party Agreement) milestones (reference Change Request M-01-92-01A).
- Heat of hydration and the time necessary to pour a grout campaign to ensure a "good" grout may impact the timely completion of grout milestones.
- Starting up the Grout Treatment Facility and initiating grout vault 102 filling to meet Milestone M-01-01A ("Complete and Verify Two Campaigns of DST Waste by 1993") is highly unlikely, as documented in Change Request M-01-92-01A.

MILESTONE M-01-00

FY 1993



FYTD Budget	2.7	6.6	9.9	11.9	15.2	18.8	22.3	26.0	29.0	31.7	34.9	37.8
FYTD Actual	0.5	4.2	6.2	10.2	12.5							
Spending Var	2.2	2.4	3.7	1.7	2.7							

Variance Explanation: Spending was reduced because of delays in the Final Safety Analysis Report review work package, operational and maintenance activities for corrective maintenance, and hiring and training of additional operators. DST 241-AW-101 formulation is delayed because the tank is now on the "watch list." Fabrication of core drill equipment is on hold. Document work is delayed because of manpower constraints.

The Operational Readiness review cost account is being re-scoped. The headcount ceiling restriction was eased slightly in February, allowing some increase in staff. DST 241-AP-105 formulation activities were initiated to replace DST 241-AW-101, and authorization was received to proceed on the core truck/transfer cask assemblies.

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MAJOR MILESTONE: M-02-00
STATUS FOR END OF MONTH: FEBRUARY 1993

DOE DIRECTOR: L. Erickson

MANAGER: W. C. Miller

BASELINE DATE: TBD

PROJECTED DATE: TBD

DESCRIPTION: Initiate pretreatment of DST waste.

DST waste must be pretreated before it can be disposed. Pretreatment supports the removal, treatment, and final disposal of DST wastes subject to land disposal restrictions. Removing the wastes from the DSTs and disposing of them in grout or glass will free DST space for single-shell tank (SST) waste.

PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

Milestone	Description	Baseline	Projected
M-02-03	Submit tank waste remediation system (TWRS) baseline scope, cost, and schedule.	8/31/93	8/31/93
M-02-05	Incorporate additional interim milestones to support pretreatment of DST waste.	8/31/93	8/31/93

ACCOMPLISHMENTS

- None.

PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

- Complete development of plans and resource-loaded schedules for waste retrieval and pretreatment as part of TWRS rebaselining.
- Prepare a retrieval program plan and technology development plans for retrieval and pretreatment.
- Complete a study to establish the near-term DST-SST retrieval sequence in support of pretreatment of tank wastes.
- Complete an engineering study on waste pretreatment feed optimization (blending).

MILESTONE STATUS/PROBLEMS/ISSUES

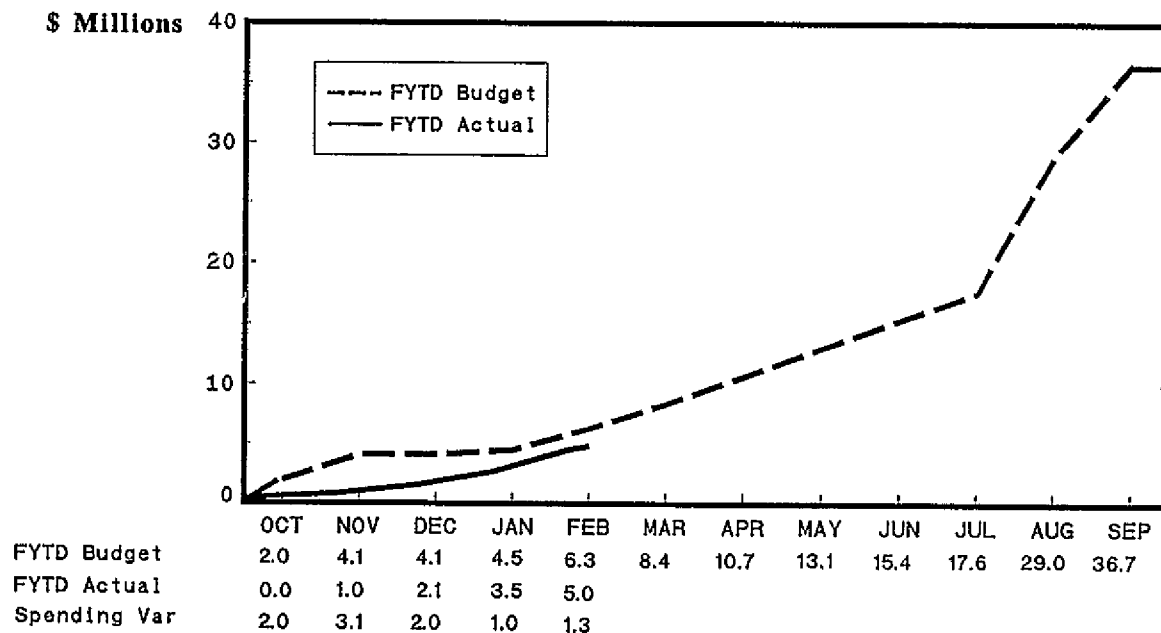
- Target Milestone M-02-00-T03 ("Publish Summary of NCAW TRUEX Laboratory Development Work") is still 3 months behind schedule. The study is expected to be completed in March 1993.

- Reanalysis of Target Milestone M-02-00-T07 ("Initiate Settling Tests for NCAW In-Tank Solids Washing") shows this work can be delayed without impacting pretreatment work. Negotiations with Ecology have begun to allow a 1-year delay of this milestone.
- Engineering studies for evaluating cesium ion exchange capability and waste treatment feed optimization (blending) are on schedule for completion by the end of March.
- A technology plan for selection of advanced (actinide) separation process is on schedule for completion by the end of March.

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MILESTONE M-02-00

FY 1993



Variance Explanation: Schedule delays on Project W-151, DST 241-AZ-101 Retrieval Systems, and selection of the Architect-Engineer on Project W-236B, "Initial Pretreatment Module," costs have not been incurred at the planned rate.

The spending variance will be reduced by increased emphasis on acquiring staff now that the headcount ceiling has been eased.

A transfer of funds from WHC to PNL reduced the annual budget for the WHC portion of the M-02 work scope by \$6 million from the December 1992 report.

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MAJOR MILESTONE: M-03-00
STATUS FOR END OF MONTH: FEBRUARY 1993

DOE DIRECTOR: R. W. Brown

MANAGER: R. A. Smith

BASELINE DATE: December 1999

PROJECTED DATE: December 1999

DESCRIPTION: Initiate Hanford Waste Vitrification Plant (HWVP) operations.

PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

Milestone	Description	Baseline	Projected
M-03-05	Initiate construction of the Vitrification Building foundation.	3/93	3/93

ACCOMPLISHMENTS

- Completed excavation of the Canister Storage Building.
- HQ authorized a Notice of Award for construction of the Canister Storage Building, thus fulfilling Milestone M-03-04 on March 1, 1993.
- Continued detailed design (now 56 percent complete).

PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

- Start excavation and construction of the Vitrification Building and construction of the Canister Storage Building.
- Ecology issued a draft construction permit. RL and WHC are now reviewing this permit. Washington State Department of Health is preparing a construction permit that should be issued March 31, 1993.

MILESTONE STATUS/PROBLEMS/ISSUES

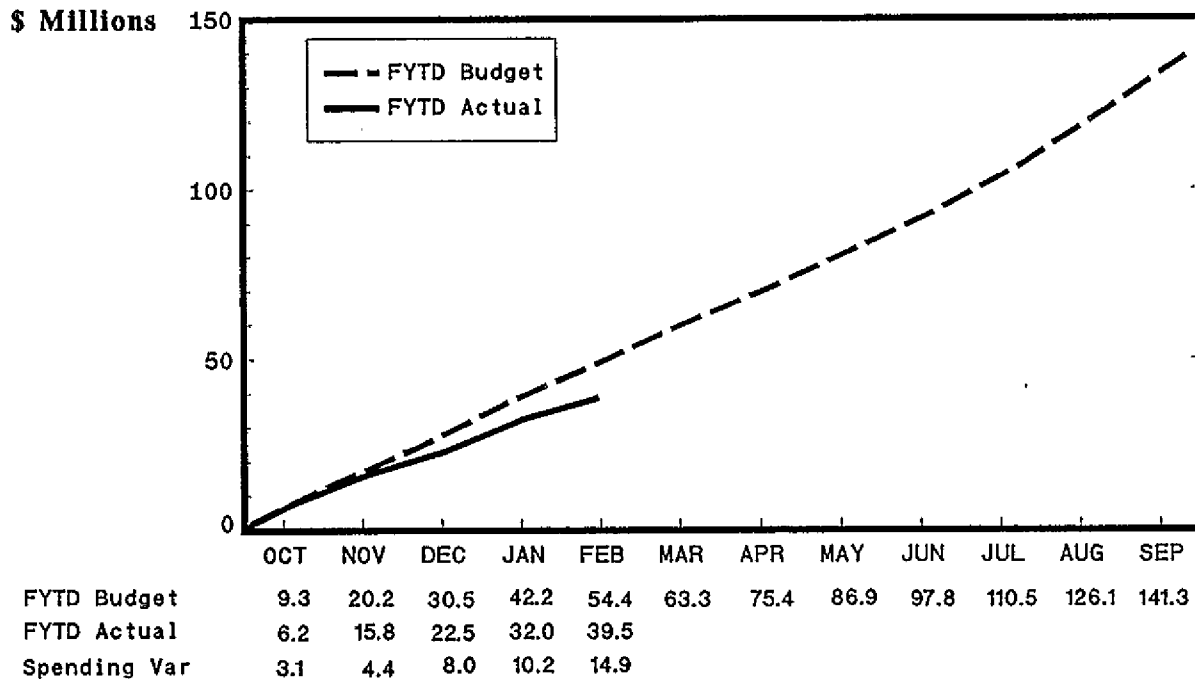
- TWRS program rebaselining continues. Recommendations from this effort will be issued on March 31, 1993 and may impact the HWVP schedule.
- Rescoping of the Multi-Function Waste Tank Facility Project could require incorporating lag storage tank capability within the HWVP.
- A plant operating efficiency evaluation continues. Initial indications are that planned design improvements will result in a total operation efficiency of more than 70 percent, which will meet current design requirements.

- An engineering study is examining ways to increase the HWVP throughput by increasing the melter capacity fourfold.

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MILESTONE M-03-00

FY 1993



Variance Explanation: The majority of the spending variance is a result of the following:

Fluor is underspent because the FY 1993 Budget is based on a staffing plan to accomplish a design completion in June 1994, but staff is being hired to support a delay to that goal to December 1994. Change request HWVP-0713 is in process to replan the Fluor budget to be consistent with design completion in December 1994 and reschedule a portion of the FY 1993 work to FY 1994.

UCAT is underspent because site construction packages are delayed by weather, delayed Key Decisions, and subcontractors not progressing as scheduled. Also contributing to the spending variance is the delay of approval to commence construction of the Vitrification Building foundation because Key Decision 3B, planned for November 1992, is now forecasted for a March 1993 completion. Staffing and associated costs have been delayed for construction management. Recommendations are to allow UCAT to proceed with Vitrification Building excavation and foundation slab construction packages to minimize a potential delay to project completion.

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MAJOR MILESTONE: M-04-00
STATUS FOR END OF MONTH: FEBRUARY 1993

DOE DIRECTOR: L. Erickson

MANAGER: W. C. Miller

BASELINE DATE: September 30, 1993

PROJECTED DATE: September 30, 1993

DESCRIPTION: Provide annual reports of tank waste treatability studies.

PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

Milestone	Description	Baseline	Projected
M-04-00D	Provide annual report of tank waste treatability studies.	09/93	09/93

ACCOMPLISHMENTS

- No action at this time.

PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

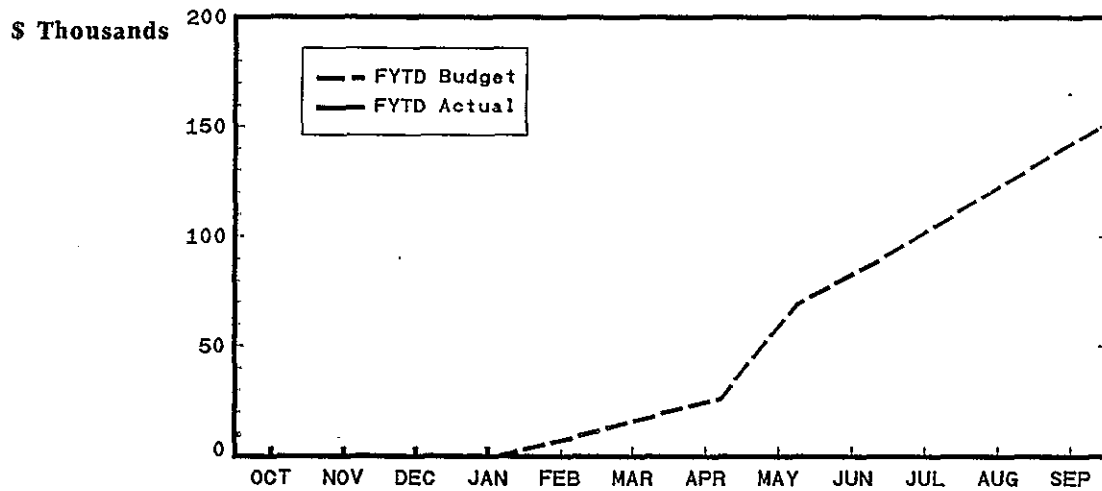
- None.

MILESTONE STATUS/PROBLEMS/ISSUES

- The basic ordering agreement for contracting the report preparation is in the final stages. Report preparation will begin next month.

MILESTONE M-04-00

FY 1993



FYTD Budget	0.0	0.0	0.0	0.0	8.9	17.7	26.6	70.1	88.3	109.1	129.9	150.8
FYTD Actual	0.0	0.5	0.5	0.5	0.7							
Spending Var	0.0	(0.5)	(0.5)	(0.5)	8.2							

Note: This chart is in thousands to provide meaningful data. The Budget Baseline Summary table shows zero because it is in millions.

MAJOR MILESTONE: M-05-00
STATUS FOR END OF MONTH: FEBRUARY 1993

DOE DIRECTOR: R. E. Gerton

MANAGER: R. E. Raymond

BASELINE DATE: September 1995

PROJECTED DATE: TBD

DESCRIPTION: Complete SST interim stabilization.

PAST DUE AND SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

Milestone	Description	Baseline	Projected
M-05-03	Interim stabilize an additional four SSTs.	9/91	TBD
M-05-04	Interim stabilize an additional nine SSTs.	9/92	TBD
M-05-05	Interim stabilize an additional 11 SSTs.	9/93	TBD
M-05-13	Upgrade leak detection and site characterization at SSTs 241-C-105 and -106.	4/93	4/93
M-05-14	Provide report on alternatives to pumping a leaking tank.	3/93	3/93
M-05-15B	Provide report on in-tank liquid level detection options for SST 241-T-101.	3/93	3/93
M-05-16	Initiate pumping of SST 241-T-101.	3/15/93	3/15/93
M-05-17B	Complete Nuclear Operator training.	12/93	12/93
M-05-17C	Provide schedule for completing Operations Supervisor and Shift Manager training.	6/93	6/93

ACCOMPLISHMENTS

- Received permission from HQ to install the pump into SST 241-T-101 and to pump the SST, pending approval of the operational readiness review. Work is progressing to install the pump.
- Completed vapor sampling and obtained in-tank photographs of SST 241-T-101, all actions required before pumping the tank.

PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

- Initiate the pumping of assumed leaking SST 241-T-101.

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- Meet with regulators to develop a new Tri-Party Agreement change package for non-watchlist tank stabilizations for FY 1992 and beyond. Continue revising the recommended change control package.
- Complete physical logging of 14 drywells at SSTs 241-C-105 and -106 using a spectral gamma probe.
- Complete engineering evaluation of alternatives for response to assumed leaking SST 241-T-101.
- Provide a letter report on in-tank liquid level detection options for assumed leaking SST 241-T-101.
- Issue schedule for completing Operations Supervisor and Shift Manager training (M-05-17C).
- Complete safety analysis report addendum to allow alternative methods for transfer of RAD waste within SST farms.
- Complete integrity assessment of waste transfer lines.
- Continue restoration of double-contained receiver tank 244-U.

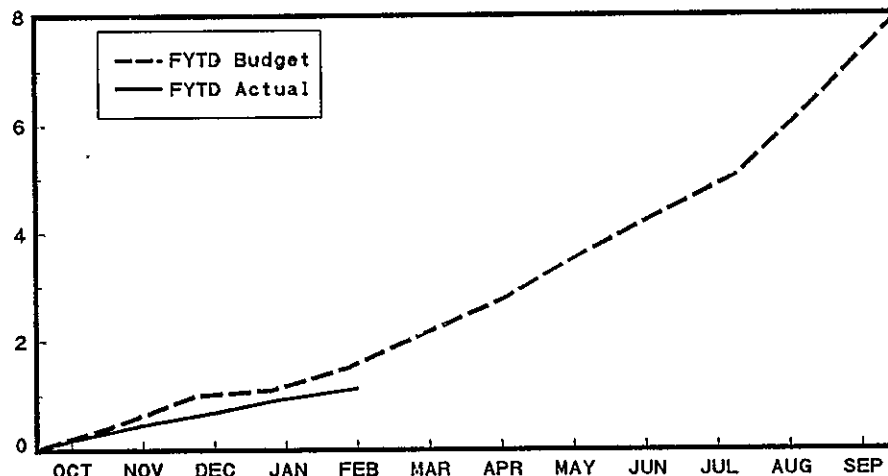
MILESTONE STATUS/PROBLEMS/ISSUES

- In September 1992, SST 241-T-101 was declared an assumed leaker. Steps are under way to reduce the drainable liquid to a level that will cease discharging waste to the surrounding soils.
- Weather conditions prevented progress towards meeting interim milestones M-05-13 and M-05-13-T02. Overtime and extra shift work are planned to attempt milestone schedule recovery.
- A "Creation of Danger," as defined in Article 31 of the Tri-Party Agreement, was declared on January 28, 1992. For personnel safety reasons, a work restriction was placed on all SST farms, and fresh air is required to operate within the boundaries of three farms. On February 28, 1992, all waste transfers in the 200 areas tank farms were halted because of concerns on fissile material inventory. The cessation on waste transfers continues. The impacts to the Tri-Party Agreement will result in a proposed Tri-Party Agreement change request.
- A safety question was raised about the hazards associated with removing liquid from SSTs and the resultant drying of the wastes potentially causing increases in tank content temperatures. Analyses and studies continue on this question.

MILESTONE M-05-00

FY 1993

\$ Millions



FYTD Budget	0.4	0.8	1.3	1.4	1.8	2.4	3.0	3.8	4.5	5.2	6.5	7.9
FYTD Actual	0.1	0.4	0.6	0.9	1.1							
Spending Var	0.3	0.4	0.7	0.5	0.7							

Variance Explanation: The fiscal-year-to-date spending variance is a result of SST 241-T-101 emergency actions which continue without specifically identified funding. These activities have deferred resources from stabilization and isolation workscope to prepare SST 241-T-101 for emergency pumping. This is scheduled to be completed in June 1993. Alternative plans are being pursued to enlist additional resources (KEH) to support SST stabilization and isolation. The ongoing rebaselining of the N1 program will identify specific resources to be used for 241-T-101 emergency corrective actions.

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MAJOR MILESTONE: M-06-00
STATUS FOR END OF MONTH: FEBRUARY 1993

DOE DIRECTOR: L. Erickson

MANAGER: W. C. Miller

BASELINE DATE: June 1994

PROJECTED DATE: June 1994

DESCRIPTION: Develop SST waste retrieval technology and complete scale-model testing.

PAST DUE AND SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

Milestone	Description	Baseline	Projected
None.			

ACCOMPLISHMENTS

- No measurable progress this month.

PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

- Complete tests of soft waste removal device with kaolin simulants used to simulate dry sludge wastes.
- Initiate testing of confined sluicing devices.
- Initiate testing of water jets for waste dislodging and conveyance assistance.
- Experimentally optimize retrieval rates using computer modeling. Define the air lift conveyance system limits.

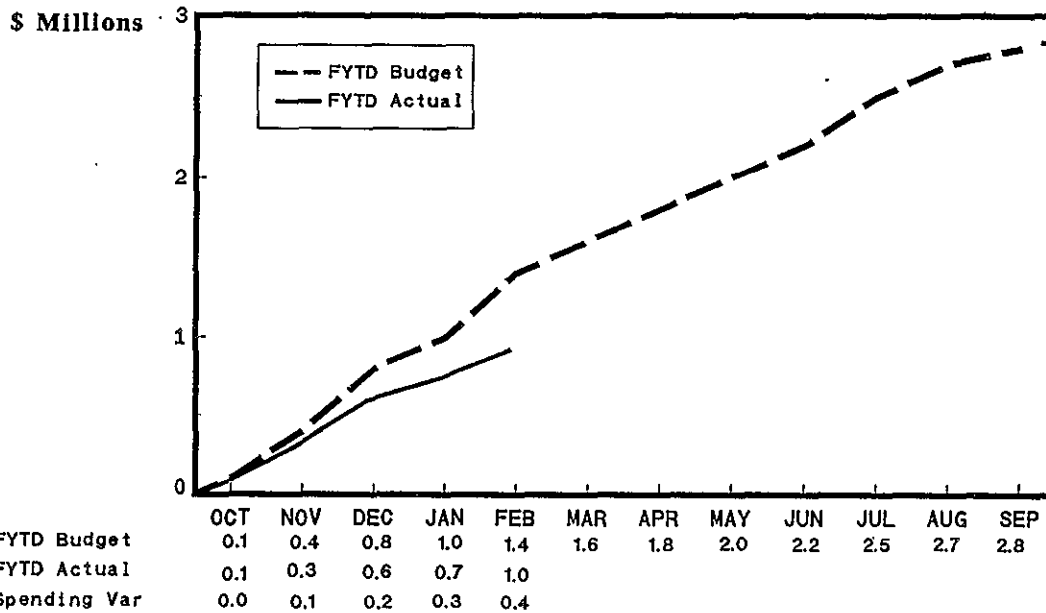
MILESTONE STATUS/PROBLEMS/ISSUES

- This milestone is on schedule.

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MILESTONE M-06-00

FY 1993



Variance Explanation: The majority of the variance is due to some contracts being placed later in the year than expected. In other cases, the contracts are in place, but costs have not yet been accrued. Costs will be properly accrued beginning in March.

MAJOR MILESTONE: M-07-00
STATUS FOR END OF MONTH: FEBRUARY 1993

DOE DIRECTOR: L. Erickson

MANAGER: W. C. Miller

BASELINE DATE: October 1997

PROJECTED DATE: October 1997

DESCRIPTION: Initiate full-scale demonstration of waste retrieval technology.

PAST DUE AND SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

Milestone	Description	Baseline	Projected
M-07-02	Obtain Ecology concurrence/non-concurrence with SST selection criteria, retrieval options, and tank selection.	12/93	03/93

ACCOMPLISHMENTS

- Submitted RL's M-07-01 SST selection criteria and retrieval options to the regulators. Their comments are due back to RL by the end of March 1993.
- Studies on the potential application of subsurface barriers to restrict the flow of waste that may leak from a tank during retrieval activities have centered on three options: circulating air barrier, cone grouting, and encapsulation. The regulators participated in these studies.

PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

- Develop a detailed plan for M-07-00 achievement, integrated with Milestone M-06-00 ("Develop SST Waste Retrieval Technology") and the Underground Storage Tank Integrated Demonstration activities. Propose revisions to the M-07 interim milestones based on the detailed schedules.
- Commence environmental and regulatory compliance documentation as required by Resource Conservation and Recovery Act (RCRA), *Washington Clean Air Act of 1967*, and *National Environmental Policy Act*.
- Complete preliminary analyses on potential leaks from SST 241-C-106 during sluicing retrieval of the waste. Review the results of this work with the regulators.
- Obtain regulator concurrence on selected tank (SST 241-C-106) and sluicing as an acceptable method for tank waste retrieval.

MILESTONE STATUS/PROBLEMS/ISSUES

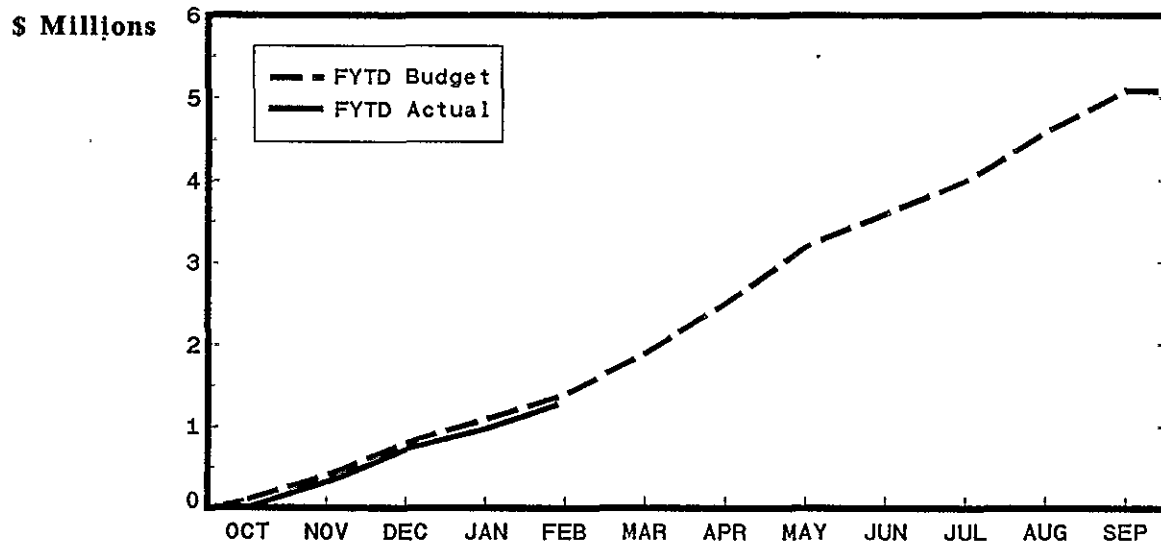
- Preliminary assessments of the impacts of performing *National Environmental Policy Act* analyses (environmental assessment or environmental impact statement) suggest that *National Environmental Policy Act* could pose substantial schedule risk to this program.
- The preliminary strategy for SST retrieval includes two reference technologies: sluicing and long-reach manipulator systems. The retrieval demonstration under M-07 will use sluicing technology. Significant development work is required before deployment of additional retrieval technologies. The long-reach manipulator system (or alternative technology) will be deployed to complete the retrieval demonstration if sluicing cannot achieve the 95 percent waste retrieval criteria for the M-07 demonstration.

If sluicing is not accepted for the M-07-00 retrieval demonstration (Interim Milestone M-07-02), this milestone may require a Tri-Party Agreement change request because of a lack of available commercial technology, multiyear development efforts, and procurement lead time restrictions.

- The preliminary studies on subsurface barriers (see bullet under Accomplishments) indicates this technology to be in its infancy. The potential that subsurface barriers be required as part of this milestone will practically ensure that the milestone could not be met as scheduled.

MILESTONE M-07-00

FY 1993



FYTD Budget	0.1	0.4	0.8	1.1	1.4	1.9	2.5	3.2	3.6	4.0	4.6	5.1
FYTD Actual	0.0	0.3	0.7	1.0	1.3							
Spending Var	0.1	0.1	0.1	0.1	0.1							

Variance Explanation: The annual budget increased from the January 1993 report due to the reclassification of the work scope for reclassification of the work scope for Single-Shell Tank Test Facility Evaluation and Trade Study to this milestone from milestone M-08.

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MAJOR MILESTONE: M-08-00
STATUS FOR END OF MONTH: FEBRUARY 1993

DOE DIRECTOR: L. Erickson

MANAGER: W. C. Miller

BASELINE DATE: June 2004

PROJECTED DATE: June 2004

DESCRIPTION: Initiate full-scale tank farm closure demonstration project.

PAST DUE AND SUPPORTING INTERIM MILESTONE(S) FOR NEXT 12 MONTHS

Milestone	Description	Baseline	Projected
None.			

ACCOMPLISHMENTS

- No significant progress in this reporting period.

PLANNED ACTIONS FOR THE NEXT 6 MONTHS

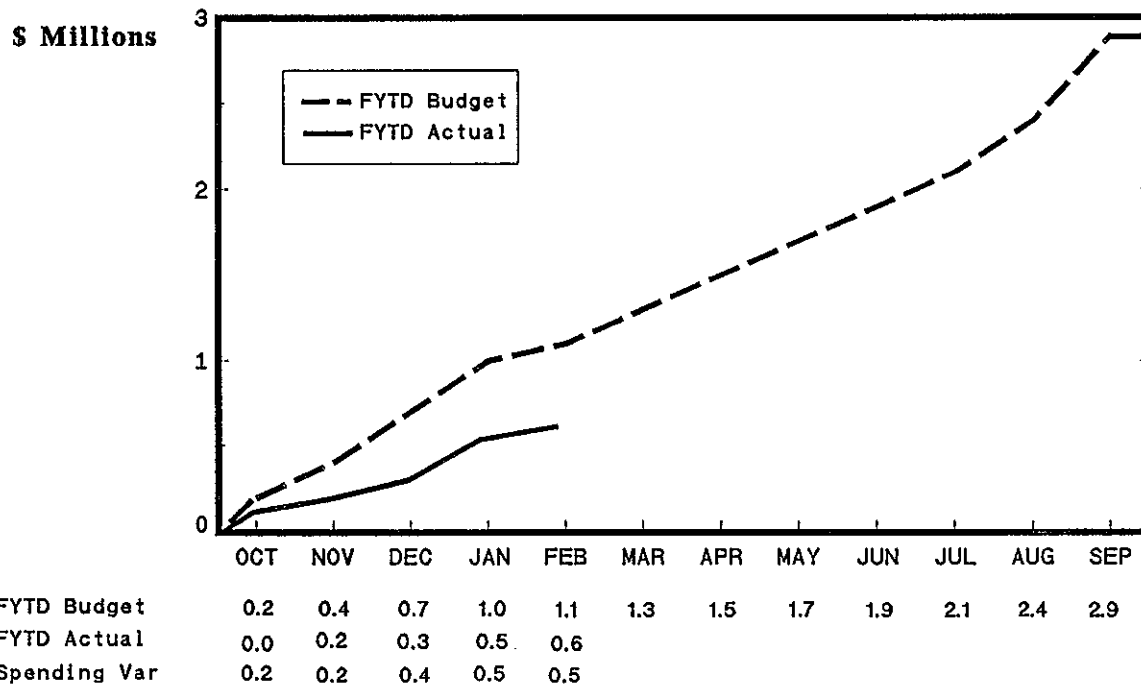
- Complete a tank farm retrieval program plan.
- Initiate Phase II of the subsurface barrier development study.

MILESTONE STATUS/PROBLEMS/ISSUES

- This milestone is on schedule.

MILESTONE M-08-00

FY 1993



Variance Explanation: Manpower restrictions have delayed start of a number of activities. Also, delays in tank leak studies (phase II) startup activities, impacted by delayed comment resolution and incorporation in the tank leak studies (phase I), have caused reduced expenditures.

Tank leak studies (phase II) will begin in March 1993.

The annual budget decreased from the January 1993 report resulted from the reclassification of the work scope for Single-Shell Tank Test Facility Evaluation and Trade Study from this milestone to milestone M-07.

MAJOR MILESTONE: M-09-00
 STATUS FOR END OF MONTH: FEBRUARY 1993

DOE DIRECTOR: R. D. Freeberg

MANAGER: T. M. Wintczak

BASELINE DATE: June 2018

PROJECTED DATE: June 2018

DESCRIPTION: Complete closure of all 149 SSTs.

PAST DUE AND SUPPORTING INTERIM MILESTONE(S) FOR NEXT 12 MONTHS

Milestone	Description	Baseline	Projected
None.			

ACCOMPLISHMENTS

- Continued borehole drilling and characterization activities around SST 241-T-106 for the field characterization work to support General Accounting Office Audit Item GAO-RCED-89-157. The borehole has exceeded the 100-foot level; environmental and geophysical sampling continues.

PLANNED ACTION(S) FOR NEXT 6 MONTHS

- Redefine SST waste disposal strategy under the Tank Waste Remediation System Decision Plan.
- Issue to the Federal Register a notice of intent for the TWRS-Environmental Impact Statement for tank remediation at the Hanford Site.
- Commence work on the next revision to the SST Closure/Corrective Action Work Plan, a precursor document for the SST Closure Plan.

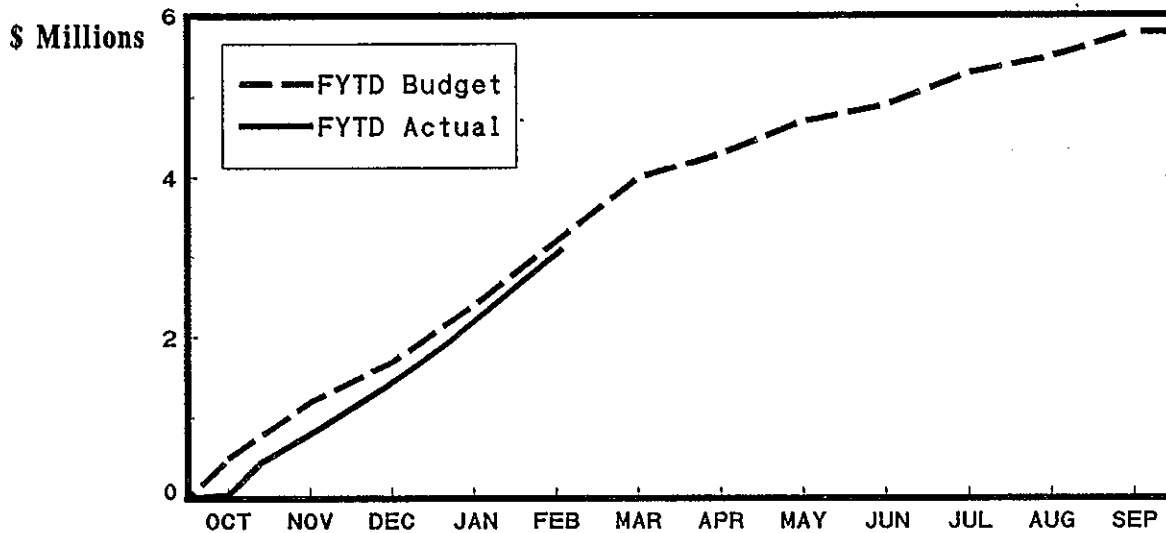
MILESTONES STATUS/PROBLEMS/ISSUES

- This milestone is on schedule; however, it may be in jeopardy unless pre-closure activities can be accelerated. Several activities require acceleration: Supplemental Environmental Impact Statement and Record of Decision preparation, SST Waste and Field Characterization, Technology Development, and concurrent permitting with facility design.

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MILESTONE M-09-00

FY 1993



FYTD Budget	0.5	1.2	1.7	2.4	3.2	4.0	4.3	4.7	4.9	5.3	5.5	5.8
FYTD Actual	0.1	0.8	1.4	2.3	3.0							
Spending Var	0.4	0.4	0.3	0.1	0.2							

Variance Explanation: Annual budget increased from the January 1993 report due to the addition of work scope for the EIS Technical Support and Single-Shell Tank Closure.

MAJOR MILESTONE: M-10-00
STATUS FOR END OF MONTH: FEBRUARY 1993

DOE DIRECTOR: R. E. Gerton

MANAGER: J. G. Propson

BASELINE DATE: September 1998

PROJECTED DATE: September 1998

DESCRIPTION: Complete analyses of at least two complete core samples from each SST.

PAST DUE AND SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

Milestone	Description	Baseline	Projected
M-10-07	Obtain 24 core samples from 12 SSTs.	9/93	9/93
M-10-13	Restore rotary model sampling capability at the Hanford Site.	9/93	12/93

ACCOMPLISHMENTS

- Obtained the second core sample from SST 241-T-107; the retrieval of the third core is in progress.
- Submitted the second draft of the Characterization Strategic Plan for review. The plan identifies characterization requirements and recommends a single strategy, directed toward meeting the M-10-00 milestone and integrating other programmatic needs.
- Completed construction of the rotary mode sampling truck and equipment trailer; the truck is now undergoing acceptance testing.

PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

- Continue rotary mode sampling testing and implementation
- Issue the Tank Waste Remediation Waste Characterization Plan. This rewrite of the SST Waste Characterization Plan will incorporate all Tank Waste Remediation requirements into a single plan.

MILESTONE STATUS/PROBLEMS/ISSUES

- The major milestone is on schedule; however, interim milestones M-10-07 through M-10-12 are under evaluation. Several actions can be taken to ensure meeting these milestones, both internal and in consonance with the regulators. These are being discussed with the regulatory community.

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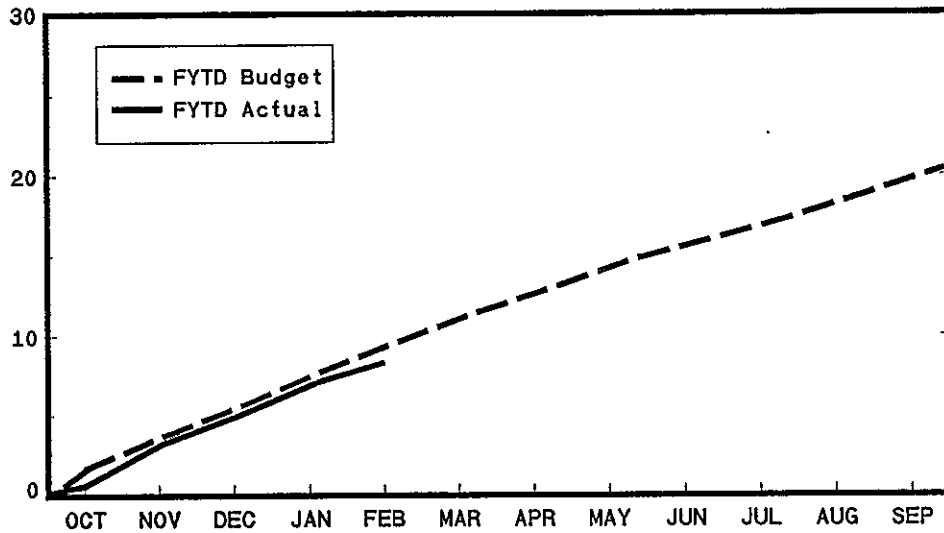
- Engineering and procurement studies for the rotary mode modular exhauster design progressed. It appears that the milestone schedule may be impacted by procurement and fabrication lead times.
- Commenced discussions with the Regulators on a new HQ direction that proposes the SST Characterization Program and associated Tri-Party Agreement milestones be reevaluated to reflect retrieval requirements. Characterization data is required to (1) resolve tank safety issues, (2) develop retrieval technologies, and (3) identify pretreatment technologies. Once agreement is reached on this new baseline, the changes will need to be reflected in the Tri-Party Agreement Major Milestone M-10-00.

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MILESTONE M-10-00

FY 1993

\$ Millions



FYTD Budget	1.7	3.7	5.6	7.7	9.6	11.4	13.0	14.7	16.0	17.3	18.8	20.4
FYTD Actual	0.6	3.1	4.9	6.9	8.7							
Spending Var	1.1	0.6	0.7	0.8	0.9							

Variance Explanation: WHC standdown on core sampling impacted spending in both the SST core sampling and FY93 lab support cost accounts. Positive spending variances outweigh negative ones attributable to rotary exhaustor redesign and some unanticipated lab expenses.

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MAJOR MILESTONE: M-11-00
STATUS FOR END OF MONTH: FEBRUARY 1993

DOE DIRECTOR: J. M. Hennig

MANAGER: M. L. Bell

BASELINE DATE: June 1994

PROJECTED DATE: June 1994

DESCRIPTION: Complete construction and initiate operations of expanded laboratory hot cells for high-level radioactive mixed waste.

PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

Milestone	Description	Baseline	Projected
None.			

ACCOMPLISHMENTS

- Erected the building to house the hot cell expansion.
- Witnessed first trial assembly of a hot cell compartment at the fabricators.

PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

- Continue onsite construction with the installation of ventilation and piping in the building.
- Complete fabrication of the hot cells, ship to the Hanford Site, and install in the building.

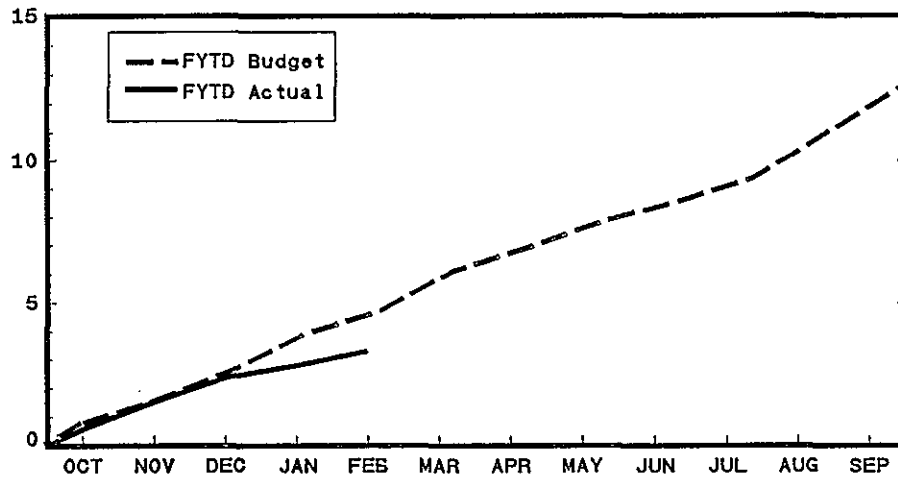
MILESTONE STATUS/PROBLEMS/ISSUES

- Verbal approval was received for the reprogramming for Project W-001 (222-S Laboratory Ventilation and Electrical Upgrade).

MILESTONE M-11-00 .

FY 1993

\$ Millions



FYTD Budget	0.8	1.6	2.6	3.9	4.7	6.1	6.9	7.8	8.5	9.3	10.9	12.5
FYTD Actual	0.6	1.5	2.4	2.8	3.4							
Spending Var	0.2	0.1	0.2	1.1	1.3							

Variance Explanation: Non-critical path construction activities were slowed down on Project W-001 in order to extend available funds. Also, procurement costs for W-001 have not come in as early as planned.

MAJOR MILESTONE: M-13-00
STATUS FOR END OF MONTH: FEBRUARY 1993

DOE DIRECTOR: R. D. Freeberg

MANAGER: T. M. Wintczak

BASELINE DATE: Annual Beginning
calendar year (CY) 1993

PROJECTED DATE: Annual Beginning
CY 1993

DESCRIPTION: Submit six remedial investigation/feasibility study (RI/FS) or RCRA facility investigation/corrective measures study (RFI/CMS) work plans each year.

PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

Milestone	Description	Baseline	Projected*
M-13-01	Submit 100-BC-2 work plan.	5/21/93	5/21/93
M-13-02	Submit 200-UP-1 work plan.	4/93	4/93
M-13-03	Submit 100-HR-2 work plan.	6/93	6/93
M-13-04	Submit 200-ZP-1 work plan.	8/93	8/93
M-13-05	Submit 100 DR-2 work plan.	10/93	10/93
M-13-06	Submit 200-BP-5 work plan.	12/93	12/93

ACCOMPLISHMENTS

- Regulators approved a change request to consolidate operable units (OUs) 100-BC-3 and 100-BC-4 into 100-BC-2.
- Regulators approved a change request to delay the OU 100-BC-2 work plan from February 28, 1993, to May 21, 1993, to allow for the consolidation of OUs 100-BC-3 and 100-BC-4 into 100-BC-2.
- Submitted to the regulators revision D of the 200-UP-2 Work Plan, which incorporated their comments.

PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

- Submit the 100-BC-2 work plan to the regulators for review.
- Submit the 200-UP-1 work plan to the regulators for review.
- Submit the 100-HR-2 work plan to the regulators for review.
- Submit the 200-ZP-1 work plan to the regulators for review.
- Continue to resolve comments on the 200-UP-2 work plan with the regulators.

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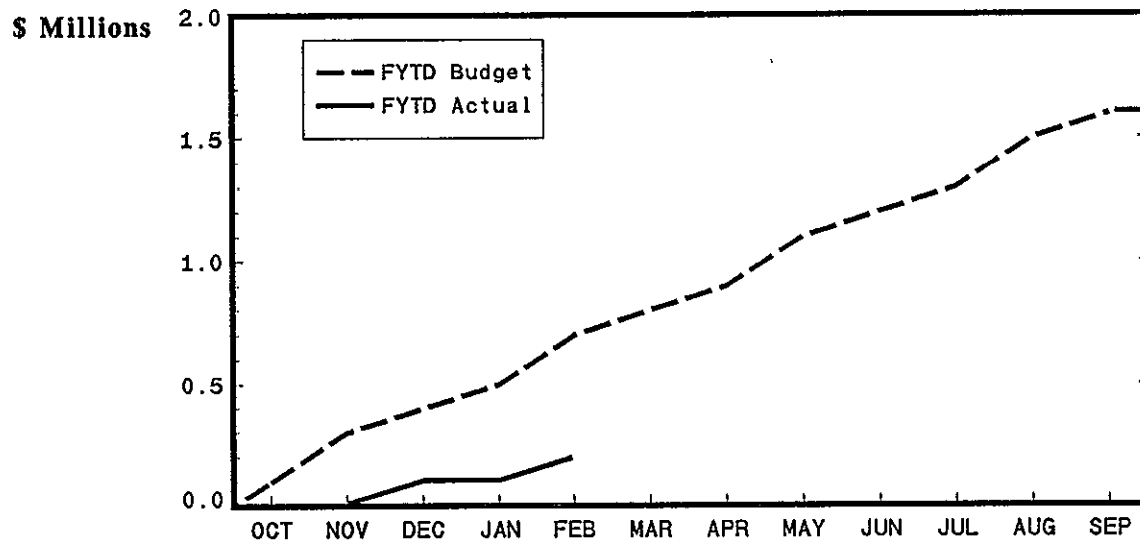
MILESTONE STATUS/PROBLEMS/ISSUES

- This milestone is on schedule.

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MILESTONE M-13-00

FY 1993



FYTD Budget	0.1	0.3	0.4	0.5	0.4	0.5	0.6	0.8	0.9	1.0	1.4	1.6
FYTD Actual	0.0	0.0	0.1	0.1	0.2							
Spending Var	0.1	0.3	0.3	0.4	0.2							

Variance Explanation: 100-BC-2 and 100-HR-2 work plans were prepared in-house by WHC opposed to offsite by subcontractors, resulting in cost savings due to lower chargeout rates.

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MAJOR MILESTONE: M-14-00
STATUS FOR END OF MONTH: FEBRUARY 1992

DOE DIRECTOR: J. M. Hennig

MANAGER: M. L. Bell

BASELINE DATE: October 1995

PROJECTED DATE: October 1995

DESCRIPTION: Provide low-level mixed waste laboratory services.

PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

Milestone	Description	Baseline	Projected
M-14-02	Complete construction of a 27-module Waste Sampling and Characterization Facility (WSCF).	10/93	10/93
M-14-03	Initiate WSCF operations.	4/94	4/94

ACCOMPLISHMENTS

- Construction is on schedule. The WSCF main structure is enclosed and heated so that work can proceed despite the weather. The basement walls are completed and painting has started.
- The Auxiliary Structures design has been approved and site work has started.

PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

- Continue WSCF construction. Receive laboratory modules and start installation.
- Continue preparations for award of a commercial laboratory contract per M-14-04.

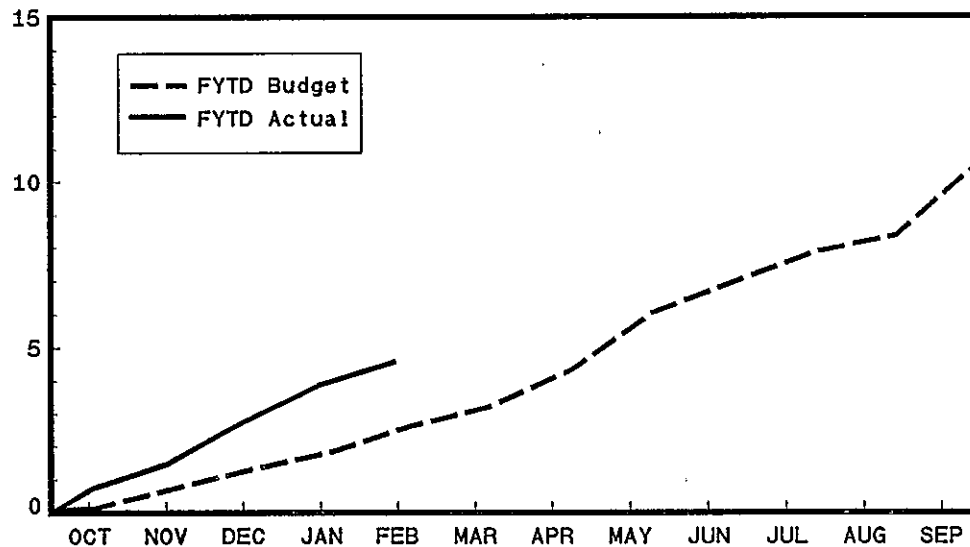
MILESTONE STATUS/PROBLEMS/ISSUES

- Planning and initial activities to acquire all needed laboratory services, in accordance with the Senior Executive Committee resolution, are under way.

MILESTONE M-14-00

FY 1993

\$ Millions



FYTD Budget	0.1	0.7	1.3	1.8	2.4	3.0	4.1	5.7	6.8	7.7	8.1	10.2
FYTD Actual	0.7	1.5	2.8	3.9	4.5							
Spending Var	(0.6)	(0.8)	(1.5)	(2.1)	(2.1)							

Variance Explanation: Spending rates continue as planned to support the April 1994 waste sampling characterization facility startup. With prior years' capital budget included, trends indicate this project to complete at the approved budget level.

MAJOR MILESTONE: M-15-00
STATUS FOR END OF MONTH: FEBRUARY 1993

DOE DIRECTOR: R. D. Freeberg

MANAGER: T. M. Winctzak

BASELINE DATE: September 2005

PROJECTED DATE: September 2005

DESCRIPTION: Complete the RI/FS or RCRA RFI/CMS process for all OUs.

PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

Milestone	Description	Baseline	Projected
M-15-02D	Submit draft phases I, II, and III FS for 200-BP-1 source areas.	6/30/93	6/30/93
M-15-04A	Submit draft 300-FF-5 F/S Phase 1 and 2 report to U.S. Environmental Protection Agency (EPA) and Ecology.	7/15/93	7/15/93
M-15-05A	Submit 100-HR-1 OU Limited Field Investigation Report to Ecology and EPA.	8/9/93	8/9/93
M-15-05B	Complete 100-HR-1 OU Treatability Study Activities.	11/30/93	11/30/93
M-15-05C	Submit 100-HR-1 OU Focused Feasibility Study Report to Ecology and EPA.	9/30/94	9/30/94
M-15-05D	Submit the 100-HR-1 OU Interim Remedial Measures Proposed Plan to Ecology and EPA.	9/30/94	9/30/94
M-15-06A	Submit 100-HR-3 OU Limited Field Investigation Report to Ecology and EPA	10/31/93	10/31/93
M-15-06B	Complete 100-HR-3 OU Treatability Study Activities.	11/30/93	11/30/93
M-15-06C	Submit 100-HR-3 OU Focused Feasibility Study Report to Ecology and EPA.	9/30/94	9/30/94
M-15-06D	Submit 100-HR-3 OU Interim Remedial Measures Proposed Plan to Ecology and EPA.	9/30/94	9/30/94
M-15-08B	Submit 100-BC-1 OU Limited Field Investigation Report to Ecology and EPA.	7/31/93	7/31/93

Milestone	Description	Baseline	Projected
M-15-08C	Submit 100-BC-1 OU Treat-ability Study Report to Ecology and EPA.	1/31/94	1/31/94
M-15-08D	Submit 100-BC-1 OU Focused Feasibility Study Report to Ecology and EPA.	11/30/94	11/30/94
M-15-09B	Submit 100-BC-5 OU Limited Field Investigation Report to Ecology and EPA.	8/31/93	8/31/93
M-15-09C	Submit 100-BC-5 OU Focused Study Report to Ecology and EPA.	10/31/94	10/31/94
M-15-09D	Submit 100-BC-5 OU IRM Proposed Plan to Ecology and EPA.	10/31/94	10/31/94
M-15-10A	Submit validated data of all sampling activities associated with Section 5.1.1.2, "Source Investigation," and 5.1.1.5, "Vadose Zone Investigation" for 100-KR-1 OU to Ecology and EPA.	10/31/93	10/31/93
M-15-10B	Submit 100-KR-1 OU Limited Field Investigation Report to Ecology and EPA.	8/31/94	8/31/94
M-15-10C	Submit 100-KR-1 OU Focused Feasibility Study Report and the 100-KR-1 OU IRM Proposed Plan to Ecology and EPA.	4/31/95	4/31/95
M-15-11A	Submit validated data of all sampling activities associated with Section 5.1.1.6, "Groundwater Investigation," for 100-KR-4 OU to Ecology and EPA.	3/12/93	3/12/93
M-15-11B	Submit 100-KR-4 OU Limited Field Investigation Report to Ecology and EPA.	1/12/94	1/12/94
M-15-11C	Submit 100-KR-4 OU Focused Feasibility Study Report to Ecology and EPA.	10/31/94	10/31/94
M-15-11D	Submit 100-KR-4 OU IRM Proposed Plan to Ecology and EPA.	10/31/94	10/31/94
M-15-13A	Submit validated data of all sampling activities associated with Section 5.1.1.2, "Source Invest.," and 5.1.1.5, "Vadose Zone Investigation" for 100-FR-1 OU to Ecology and EPA.	11/31/93	11/31/93

Milestone	Description	Baseline	Projected
M-15-13B	Submit 100-FR-1 OU Limited Field Investigation Report to Ecology and EPA.	9/30/94	9/30/94
M-15-13C	Submit 100-FR-1 OU Focused Feasibility Study Report to Ecology and EPA.	5/31/95	5/31/95
M-15-13D	Submit 100-FR-1 OU IRM Proposed Plan to Ecology and EPA.	5/31/95	5/31/95
M-15-13E	Submit validated data of all sampling activities associated with Section 5.1.1.6, "Groundwater Investigation," for 100-FR-3 OU to Ecology and EPA.	6/14/93	6/14/93
M-15-13F	Submit 100-FR-3 OU Limited Field Investigation Report to Ecology and EPA.	4/14/94	4/14/94
M-15-13G	Submit 100-FR-3 OU Focused Feasibility Study Report to Ecology and EPA.	12/14/94	12/14/94
M-15-13H	Submit 100-FR-3 OU IRM Proposed Plan to Ecology and EPA.	12/14/94	12/14/94

ACCOMPLISHMENTS

- Submitted final 1100-EM-1 RI/FS report to EPA and Ecology. This completed milestone M-15-01B/C.
- Submitted to Ecology and EPA validated data of all sampling activities associated with Sections 5.1.1.2, "Source Investigation," and 5.1.1.5, "Vadose Zone Investigation" for 100-BC-1. This completed milestone M-15-08A.
- Completed vadose drilling at four borings for 100-FR-3.
- Submitted copies of the 100-KR-1 (Vadose Borehole and Nonintrusive Unvalidated Sample Analysis Data) to DOE-RL for distribution to the regulators.
- Submitted validated data of all sampling activities associated with Sections 5.1.1.5, "Vadose Zone Investigation," and 5.1.1.6, "Ground-water Investigation" for 100-BC-5 on December 31, 1992. This completed Milestone M-15-09A.
- Completed drilling at four vadose borings at 100-FR-1.
- Completed data validation of the first and second rounds of groundwater data for 100-HR-3.

- Completed three rounds of groundwater sampling at 100-HR-3.
- Completed the seventh round of groundwater sampling for 200-BP-1.
- Initiated geotechnical test borings at Crib B-57 in OU 200-BP-1 for determining the extent of contamination and for use in design of the prototype barrier.
- Issued the final 200 West Groundwater Aggregate Area Management Study Report to the regulators.
- Successfully completed negotiations with the EPA to acquire a soil washing system for use at OU 300-FF-1 to conduct the physical separation soil treatability test.
- Received approval February 24, 1993, from EPA on Change Number 300-FF-1-27 to submit a report on the physical separations treatability test in lieu of the RI Phase II work plan.
- The EPA soil washing system will be delivered in March and modifications initiated for use of the system at 300-FF-1.

PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

- Finalize reviews and comments on the FS study for OUs 1100-EM-2, 1100-EM-3, and 1100 IU-1.
- Finalize and review comments on 1100 Area proposed plan.
- Complete 100-KR-1 third round of sampling by the end of March 1993.
- Complete the second round of groundwater sampling at OU 100-FR-3.
- Issue the Plutonium-Uranium Extraction (PUREX) Plant aggregate area management study reports to the regulators in March.
- Complete the resolution of comments on the 200 North and Semi-Works aggregate area management study reports in April.
- Complete the eighth round of groundwater sampling scheduled for July 1993 for OU 200-BP-1.
- Submit OU 200-BP-1 RI Phase I Report to the regulators the end of March, thus satisfying Tri-Party Agreement Target Milestone M-15-02B-T1.
- Submit OU 200-BP-1 combined FS Phases I, II, and III reports to the regulators by June 30, 1993 to complete Tri-Party Agreement target milestones M-15-02D and M-15-04A.
- Submit OU 300-FF-5 draft RI Phase I report, and the FS Phases I and II reports mid-July 1993 to complete Tri-Party Agreement Milestone M-15-4T1.

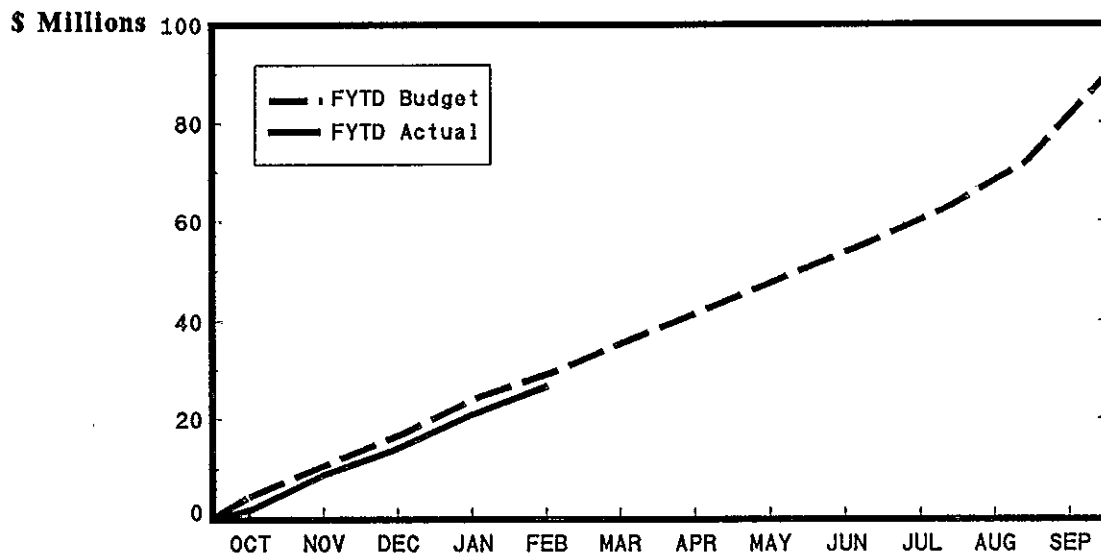
MILESTONE STATUS/PROBLEMS/ISSUES

- This milestone is on schedule.

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MILESTONE M-15-00

FY 1993



FYTD Budget	4.6	11.0	17.2	24.7	29.9	36.6	42.9	49.2	55.6	62.6	71.5	88.5
FYTD Actual	2.3	9.1	14.3	21.2	27.2							
Spending Var	2.3	1.9	2.9	3.5	2.7							

Variance Explanation: None required.

MAJOR MILESTONE: M-16-00
STATUS FOR END OF MONTH: FEBRUARY 1993

DOE DIRECTOR: R. D. Freeberg

MANAGER: T. M. Wintczak

BASELINE DATE: September 2018

PROJECTED DATE: September 2018

DESCRIPTION: Complete the remedial actions for all OUs.

PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

Milestone	Description	Baseline	Projected
None.			

ACCOMPLISHMENTS

- Received delivery of the leased 500 ft³/min vapor extraction system unit on February 23, 1993, for the 200 West Carbon Tetrachloride ERA.
- Completed installation of the automated data process control system. Twenty-four-hour operations commenced February 3, 1993, at the carbon tetrachloride ERA site.
- Tentatively scheduled sodium dichromate expedited response action (ERA) start date for drum removal in early March.
- Completed the second phase of sampling at North Slope ERA.

PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

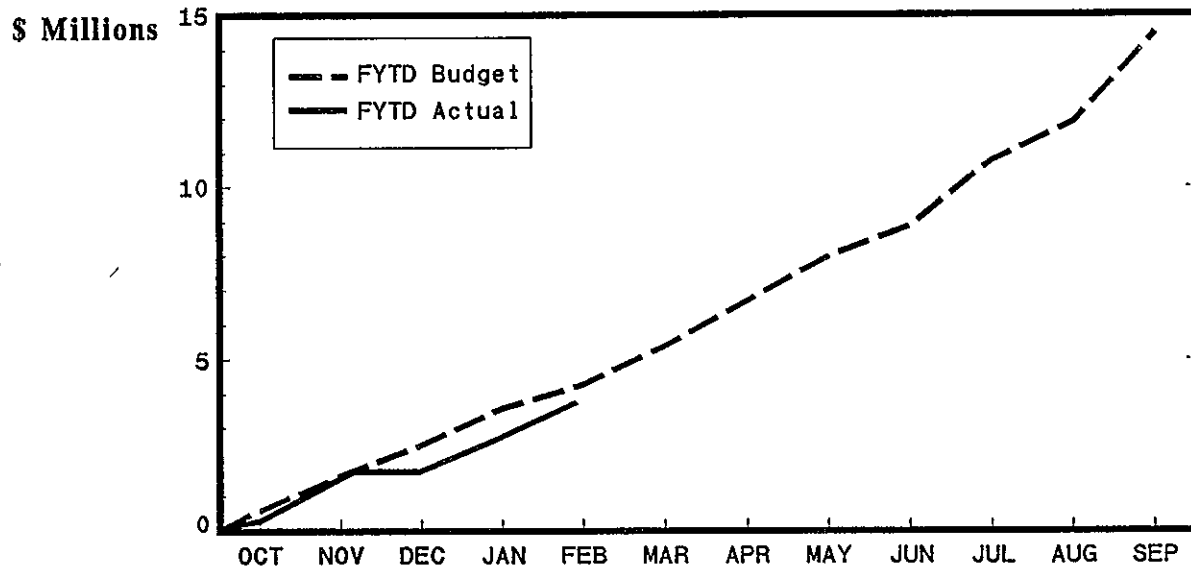
- Continue the vapor extraction capacity upgrade on schedule to achieve 3,000 ft³/min capability at the carbon tetrachloride ERA site. All systems will be on line by March 31, 1993.
- Complete the N Springs engineering evaluation/cost analysis by the end of April.
- Resolve comments and review data for the White Bluffs Pickling Acid Crib ERA.
- Complete Riverland engineering evaluation/cost analysis by the end of March.

MILESTONE STATUS/PROBLEMS/ISSUES

- This milestone is on schedule.

MILESTONE M-16-00

FY 1993



FYTD Budget	0.6	1.6	2.5	3.6	4.3	5.4	6.7	8.0	8.9	10.8	11.9	14.5
FYTD Actual	0.3	1.4	1.9	2.8	3.8							
Spending Var	0.3	0.2	0.6	0.8	0.5							

Variance Explanation: Carbon Tetrachloride expedited response action (ERA) well drilling and pipeline integrity test scope is behind schedule due to higher priority work for supporting organizations. Well drilling is also being impacted by safety reviews and poor February weather. North Slope ERA cost savings due to decrease scope of work.

MAJOR MILESTONE: M-17-00
STATUS FOR END OF MONTH: FEBRUARY 1993

DOE DIRECTOR: J. M. Hennig

MANAGER: D. E. Kelley

M-17-00A:**BASELINE DATE: June 1995****PROJECTED DATE: June 1995**

DESCRIPTION: Complete liquid effluent treatment facilities and upgrades for Phase I effluents.

M-17-00B:**BASELINE DATE: October 1997****PROJECTED DATE: October 1997**

DESCRIPTION: Implement best available technology/all known, available, and reasonable methods of prevention, control, and treatment for all Phase II liquid effluents at the Hanford Site.

PAST DUE OR SUPPORTING INTERIM MILESTONE(s) FOR THE NEXT 12 MONTHS

Milestone	Description	Baseline	Projected
M-17-09A	Complete definitive design of "300 Area Treated Effluent Disposal Facility" (Project L-045H) and submit design documentation to the EPA and Ecology as a primary document.	7/93	7/93

ACCOMPLISHMENTS

- RL initiated negotiations with EPA and Ecology about the terms and conditions for the continued discharge of the 300 Area Process Sewer to the 300 Area Process Trench.
- RL reviewed and approved the preliminary safety analysis report (PSAR) for the "242-A Evaporator/PUREX Plant Condensate Treatment Facility" (i.e., Project C-018H) for start of construction of the process buildings pending receipt of all regulatory approvals.
- RL received verbal approval from Ecology of the National Emission Standards for Hazardous Air Pollutants (NESHAP) air permit. This makes up one of three air-related agency approvals needed for the March 1993 construction start for the treatment facility building and permanent structures.
- Completed definitive design of the collection system for the 200 Area Treated Effluent Disposal Facility (Project W-049H) has been 1 month ahead of schedule.

- Released the 300 Area Treated Effluent Disposal Facility (Project L-045H) for bid. Held a site tour for prospective bidders. Bid evaluations are expected to start in March 1993.

PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

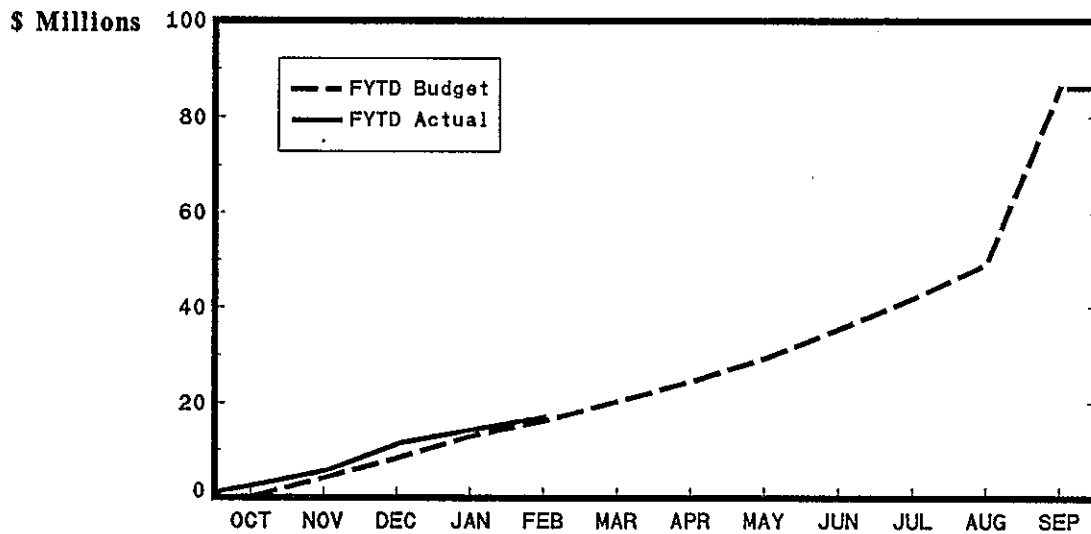
- Evaluate bids and select a vendor for the 300 Area Treated Effluent Treatment Facility construction contract.
- Complete 30 percent definitive design of the Project W-049H disposal system and initiate detailed definitive design work on the disposal system.
- Initiate construction of the Project W-049H collection system.
- Initiate construction of the "242-A Evaporator/PUREX Condensate Treatment Facility" (i.e., Project C-018H) process facility buildings and permanent structures.
- Submit final design on the 300 Area Treated Effluent Disposal Facility (Project L-045H) to EPA and Ecology for approval (M-17-09A).
- Present groundwater assessment plans to EPA and Ecology for Liquid Wastewater Disposal Facility 1325-N, Crib 216-W-LWC, Powerhouse Pond 284-W, and Pond 2101-M by April 1993 (M-17-13).

MILESTONE STATUS/PROBLEMS/ISSUES

- The milestone is on schedule. Design work for the 300 Area Treated Effluent Disposal Facility (Project L-045H) proceeds ahead of schedule.
- Ecology and EPA outlined the terms and conditions under which they would approve continued discharge of the 300 Area Process Sewer to the 300 Area Process Trenches. Conditions include abandonment of the western trench, additional flow restrictions, additional reporting requirements, and installation of additional flow measuring devices. Negotiations with the regulators on this issue have begun and are expected to conclude next month.
- Compliance with all effluent flow restrictions contained in Tri-Party Agreement Milestone M-17 have been maintained.

MILESTONE M-17-00

FY 1993



FYTD Budget	0.3	4.3	8.3	12.9	16.2	20.4	24.6	29.3	35.6	41.9	49.2	86.6
FYTD Actual	2.4	6.9	10.7	14.1	17.3							
Spending Var	(2.1)	(2.6)	(2.4)	(1.2)	(1.1)							

Variance Explanation: Fixed price contractor billings have not reached anticipated levels. Revised billing information from the fixed price contractor is forthcoming and WHC will then respread the cost baseline and associated budget. Partial modification of budget baseline was made in February to reflect actual conditions to date.

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MAJOR MILESTONE: M-18-00
STATUS FOR END OF MONTH: FEBRUARY 1993

DOE DIRECTOR: J. M. Hennig

MANAGER: R. J. Roberts

BASELINE DATE: March 1997

PROJECTED DATE: March 1997

DESCRIPTION: Complete Waste Receiving and Processing (WRAP) Facility Module 1 construction and initiate operations.

PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

Milestone	Description	Baseline	Projected
None.			

ACCOMPLISHMENTS

- Contractor submitted draft Air Permit Applications to RL for review and transmittal to EPA, Ecology, and the Washington Department of Health.
- Submitted the Draft PSAR for internal contractor review before submittal to RL for review and approval.
- Continued discussions about the RCRA permit application at the monthly Tri-Party Agreement Unit Managers meeting.

PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

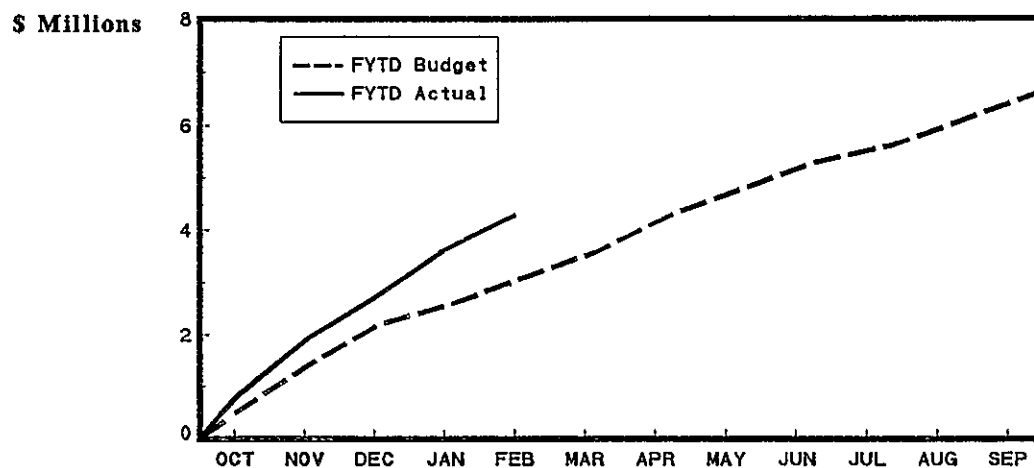
- Continue Title 2 Design activities and complete 90 percent design review.
- Initiate construction of WRAP Facility, Module 1.
- Complete glovebox testing.
- Complete the WRAP Facility, Module 1 PSAR.
- Prepare construction bid packages for WRAP Facility, Module 1. These bid packages will cover major components of the WRAP Facility (e.g., electrical system, heating and ventilation system, fire protection system). Private firms will bid on these packages.
- Submit the air emissions-related permit applications to EPA, Ecology, and the Washington Department of Health.

MILESTONE STATUS/PROBLEMS/ISSUES

- This milestone is on schedule.

MILESTONE M-18-00

FY 1993



FYTD Budget	0.5	1.4	2.2	2.6	3.1	3.7	4.4	4.9	5.3	5.7	6.1	6.6
FYTD Actual	0.8	1.9	2.7	3.6	4.2							
Spending Var	(0.3)	(0.5)	(0.5)	(1.0)	(1.1)							

Variance Explanation: Twice as many comments of the Preliminary Safety Analysis Report were received than expected. As a result, complete rewrites of Chapters 4, 5, 6, and 7 were required to accelerate the schedule. In addition, expediting completion of the mock glovebox for testing was required to support Architect/Engineer design.

MAJOR MILESTONE: M-19-00
STATUS FOR END OF MONTH: FEBRUARY 1993

DOE DIRECTOR: J. M. Hennig

MANAGER: R. J. Roberts

BASELINE DATE: September 1999

PROJECTED DATE: September 1999

DESCRIPTION: Complete WRAP Facility, Module 2, construction and initiate operations.

PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

Milestone	Description	Baseline	Projected
None.			

ACCOMPLISHMENTS

- Contractor submitted the engineering study for WRAP Facility, Module 2B, to RL for review. This engineering study evaluates and makes recommendations for transuranic waste treatment alternatives for inclusion into the WRAP Facility, Module 2B (i.e, proposed interim milestone M-19-03).

PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

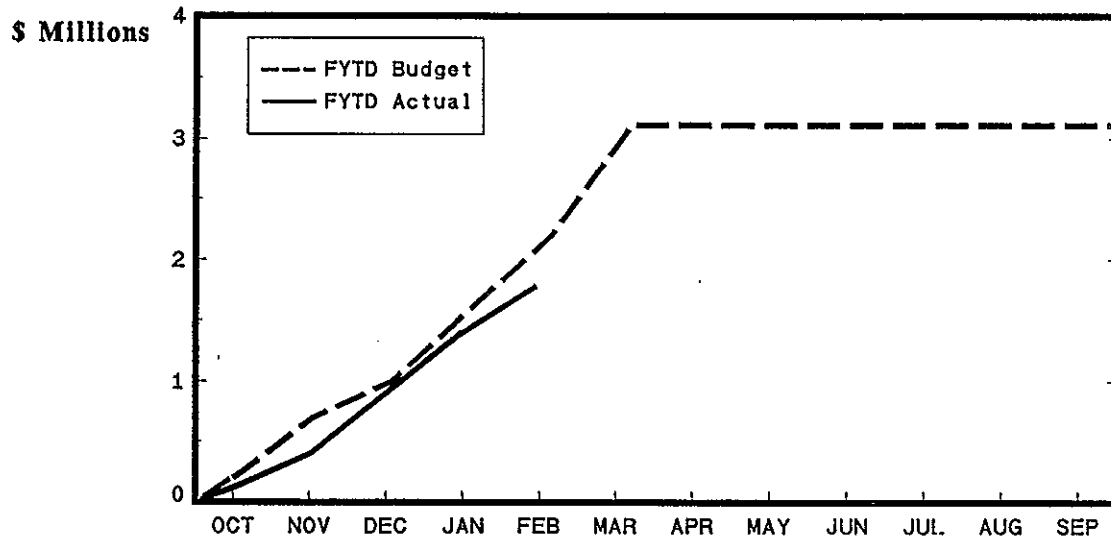
- Submit the engineering study for WRAP Facility, Module 2B, to EPA and Ecology for review (proposed Interim Milestone M-19-03). This report develops and evaluates transuranic waste treatment alternatives for inclusion in WRAP Facility, Module 2B.
- Continue preparation of the Advanced Conceptual Design for WRAP Facility, Module 2A.
- Obtain approval of Tri-Party Agreement Change Request M-19-91-01 from Ecology and EPA.
- Continue with waste form qualification testing.
- Initiate activities for the development of the WRAP Facility, Module 2A PSAR.
- Prepare and approve the WRAP Facility, Module 2A, engineering and development program plan. This plan will outline the testing and development requirements for technologies being considered for inclusion in the WRAP Facility, Module 2A, waste treatment systems.
- Obtain Key Decision 1 for WRAP Facility, Module 2A, from HQ. This decision is required to proceed into detailed definitive design of the project.

MILESTONE STATUS/PROBLEMS/ISSUES

- Significant technical issues about the Waste Isolation Pilot Plant waste acceptance criteria continue to impact the design of WRAP Facility, Module 2. Design of WRAP Facility, Module 2B, cannot proceed until the Waste Isolation Pilot Plant waste acceptance criteria issues are resolved. Work on the portion of WRAP Facility, Module 2 (i.e., WRAP Facility, Module 2B) that will receive and process remote handled transuranic waste contaminated hazardous waste (i.e., mixed remote handled transuranic waste) is behind schedule. The portion of WRAP Facility, Module 2, that is not affected by the Waste Isolation Pilot Plant waste acceptance criteria (i.e., WRAP Facility, Module 2A) remains on schedule. The submodularization of WRAP Facility, Module 2, is reflected in Tri-Party Agreement change request M-19-91-01. Ecology and EPA continue to review this change request.
- WRAP Facility, Module 2A, is on schedule for September 1999, the Tri-Party Agreement Milestone M-19-00 due date. The engineering study for WRAP Facility, Module 2B, to develop alternatives for transuranic treatment and recommendations for treatment (proposed interim milestone M-19-03) is on schedule.

MILESTONE M-19-00

FY 1993



FYTD Budget	0.2	0.7	1.0	1.6	2.1	3.1	3.1	3.1	3.1	3.1	3.1
FYTD Actual	0.1	0.4	0.9	1.4	1.8						
Spending Var	0.1	0.3	0.1	0.2	0.3						

Variance Explanation: The underspent condition is due to unanticipated delays on waste form qualification and advanced conceptual design report efforts.

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MAJOR MILESTONE: M-20-00
STATUS FOR END OF MONTH: FEBRUARY 1993

DOE DIRECTOR: J. D. Bauer

MANAGER: S. M. Price

BASELINE DATE: May 1996

PROJECTED DATE: May 1996

DESCRIPTION: Submit Part B permit applications or closure plans for all RCRA treatment, storage, and disposal units.

PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

Milestone	Description	Baseline	Projected
M-20-30	Submit 303-M Oxide Facility Part B.	10/92	Dispute*
M-20-42	Submit Thermal Treatment Part B to Ecology and EPA (T-X-3).	12/93	12/94*
M-20-50	Submit 200 Area Effluent Treatment Facility** Part B.	8/93	8/93

*See "Milestone Status/Problems/Issues."

**The unit name has been changed from the 242-A Evaporator/PUREX Plant Process Condensate Treatment Facility to the 200 Area Effluent Treatment Facility.

ACCOMPLISHMENTS

- Submitted a revised Hanford Facility Dangerous Waste Part A Permit Application Form 3 for the 100-D Ponds on February 26, 1993.
- Submitted the 100-D Ponds Closure Plan on February 26, 1993.

PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

- Submit Notices of Intent for expansion of treatment and storage capacities at the DST system and the 200 Area Effluent Treatment Facility.
- Respond to Notices of Deficiency for the 222-S Laboratory Complex Part B Permit Application (M-20-22, completed December 1991), Low-Level Burial Grounds Part B Permit Application (M-20-06, completed December 1989), Liquid Effluent Retention Facility Part B Permit Application (M-20-47, completed June 1991), 305-B Part B Permit Application (M-20-08, completed January 1990), and the 616 Nonradioactive Dangerous Waste Storage Facility Part B Permit Application (M-20-02, completed July 1989).
- Respond to Notices of Deficiency for the 4843 Alkali Metal Storage Facility Closure Plan (M-20-14, completed June 30, 1991), Hanford Patrol

9 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14

Academy Demolition Site (M-20-25, completed November 25, 1992), the Ashpit Demolition Site Closure Plan (M-20-26, completed November 25, 1992), the Hexone Storage and Treatment Closure Plan (M-20-27, completed November 25, 1992), the E-8 Borrow Pit Closure Plan (M-20-28, completed November 25, 1992), and the 216-B-3 Pond System Closure/Postclosure Plan (M-20-09, completed March 31, 1990)

- Revise 105-DR Large Sodium Fire Facility Closure Plan and 2101-M Pond Closure Plan to reflect agreements reached with Ecology on Notice of Deficiency comments.
- Submit revised Hanford Facility Dangerous Waste Part A Permit Application Form 3s for the 325/3100 Hazardous Waste Treatment Unit, DST System, SSTs, 204-AR Waste Unloading Station, 222-S Laboratory Complex, and the 242-A Evaporator.

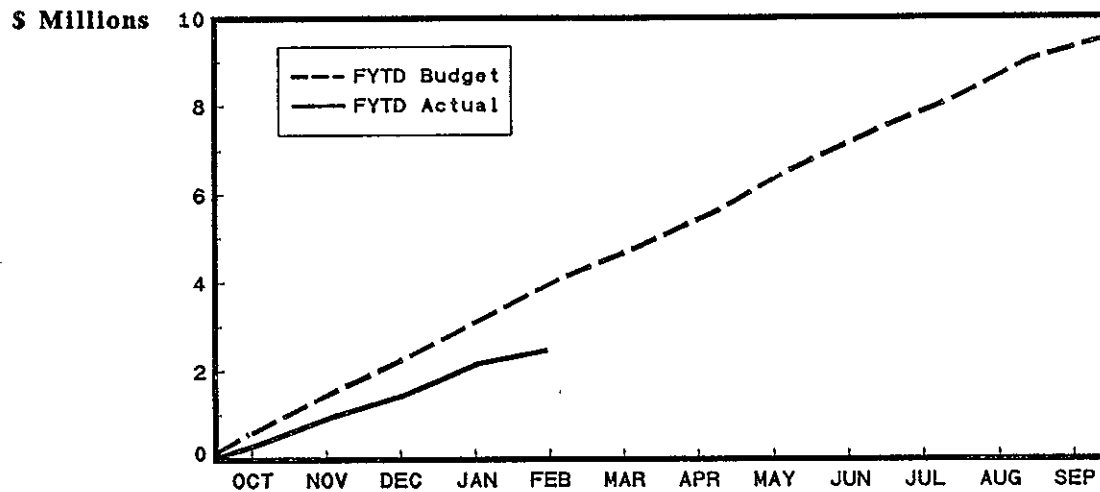
MILESTONE STATUS/PROBLEMS/ISSUES

- M-20-30, "Submit 303-M Oxide Facility Part B to Ecology and EPA"--RL submitted to Ecology a request to withdraw the Part A permit application for the 303-M Oxide Facility and a change request to delete Milestone M-20-30. Ecology denied both. RL then prepared a notice of dispute and held a meeting with Ecology to initiate resolution. Both parties are developing positions for discussion at a future Tri-Party Agreement Project Managers meeting.
- M-20-50, "Submit 200 Area Effluent Treatment Facility Part B"--Work is proceeding on schedule to meet the current milestone date. The Part B permit application is being prepared for WHC review.
- M-20-42, Submit Thermal Treatment Part B to Ecology and EPA (T-X-3)--Development of the Part B application for this unit has identified several issues to be resolved before a technically accurate and complete application can be prepared. A Change Package (M-20-92-7) to delay submittal of this Part B permit application from December 31, 1993, to December 31, 1994, was submitted to RL for approval on October 27, 1992.
- M-20-09, "Submit 216-B-3 Pond Closure/Postclosure Plan to Ecology and EPA"--A strategy and schedule is being prepared to combine remediation activities associated with the past practice operable unit, 200-BP-11, with the closure activities associated with 216-B-3 Pond System. This strategy is in support of the activities necessary to administratively clean close the 216-B-3B and 3C lobes and partial close the 216-B-3 main pond and 3A lobe by June 1995. A decision must be reached among RL, Ecology, and EPA on this strategy to allow for continued use of the 3B and 3C lobes to support liquid effluent disposal (216 Consent Order).
- Hanford Facility Dangerous Waste Permit (Hanford Facility Permit)--A tabulation of updates has been prepared for the Hanford Facility Dangerous Waste Permit Application, Rev. 0, originally submitted to the regulators in October 1991. WHC and Pacific Northwest Laboratory have certified this tabulation. Briefing memorandums for HQ staff and Mr. Wagoner, a communications plan, and a response to query have also been prepared. The transmittal of the tabulation of updates, with the

accompanying letter, has been awaiting authorization from HQ since October 1992. This authorization is not expected until March 1993. If significant changes are required as a result of the HQ review, WHC and Pacific Northwest Laboratory may have to recertify the tabulation of updates. These updates are now scheduled to be incorporated into Revision 1 of the Hanford Facility Dangerous Waste Permit Application by April 30, 1992. The schedule for reissuance of the revised Draft Hanford Facility Permit by the regulators is currently indefinite.

MILESTONE M-20-00

FY 1993



FYTD Budget	0.6	1.5	2.3	3.2	4.0	4.8	5.7	6.7	7.6	8.3	9.1	10.2
FYTD Actual	0.3	0.9	1.4	2.1	2.5							
Spending Var	0.3	0.6	0.9	1.1	1.5							

Variance Explanation: The underrun is due to continued delays in Ecology's review of Closure Plans, Part B Permit applications, and notice of deficiency responses resulting in less than planned support for follow on revisions of these documents. The Fy 1992 carry over dollars were approved and incorporated into the FY 1993 budget, resulting in an increase in total budget.

MAJOR MILESTONE: M-24-00
STATUS FOR END OF MONTH: February 1993

DOE DIRECTOR: J. M. Hennig**MANAGER: R. R. THOMPSON****BASELINE DATE: December 1993****PROJECTED DATE: December 1993**

DESCRIPTION: Install RCRA groundwater monitoring wells at the rate of 29 in CY 1989, 30 in CY 1990, and up to 50 per year thereafter as specified by agreed interim milestones until all land disposal units and SSTs are determined to have RCRA-compliant monitoring systems

PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

Milestone	Description	Baseline	Projected
M-24-00E	Install a maximum of 50 wells for CY 1993.	12/93	12/93
M-24-30	Install two additional wells RCRA around the 1325-N Crib (4 total).	12/93	12/93
M-24-31	Install two additional RCRA wells around the Low-Level Burial Grounds (81 total)	12/93	12/93
M-24-32	Install three additional RCRA wells around the Grout Treatment Facility (13 total).	12/93	12/93

ACCOMPLISHMENTS

- The HQ authorized funding to proceed with 1993 drilling. Letter of instruction to onsite contractor issued to proceed with preparations.

PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

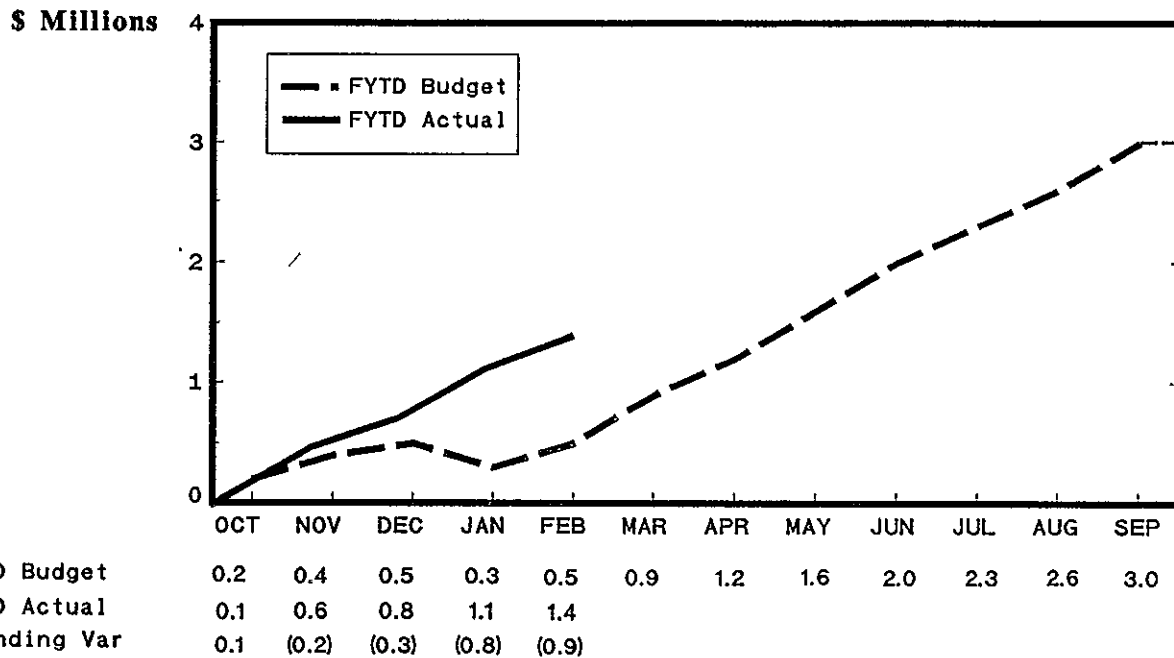
- Begin drilling activities for CY 1993 wells.

MILESTONE STATUS/PROBLEMS/ISSUES

- Hanford technical staff, working with Ecology technical staff, have determined the locations for six sites for RCRA groundwater monitoring wells in CY 1993. Ecology and RL have technical agreement that monitoring to be accomplished by one of the wells originally proposed at 1325-N Crib can be accomplished by an existing well. A change request reducing this milestone by one well will be prepared; in the meantime the requirement is for seven wells in CY 1993.

MILESTONE M-24-00

FY 1993



Variance Explanation: The spending variance stems mainly from completing the drilling of the CY 1992 groundwater monitoring wells in December 1992, rather than in September, as was planned when the 1993 FYWP was developed. RL released an obligated \$750,000 of the projects' funds in December. This reduction was included in January 1993; therefore, the reduction appears in FY 1993.

The wells were drilled sequentially with the ODEX rig rather than in parallel with the cable tool rigs. This saved money but delayed finishing the work until December.

The \$1.5 million budget increase in February results from approval of additional funding. The construction of wells under Project W-152, "Groundwater Monitoring Wells," was authorized to proceed on January 29, 1993.

MAJOR MILESTONE: M-26-00
STATUS FOR END OF MONTH: FEBRUARY 1993

DOE DIRECTOR: J. M. Hennig

MANAGER: C. J. Geier

BASELINE DATE: April 1993

PROJECTED DATE: April 1993

DESCRIPTION: Submit annual Hanford LDR report in accordance with the LDR Plan to cover the period from April 1 through March 31.

PAST DUE OR SUPPORTING INTERIM MILESTONE(s) FOR THE NEXT 12 MONTHS

Milestone	Description	Baseline	Projected
M-26-01C	Submit an annual Hanford LDR Report in accordance with the LDR Plan to cover the period from April 1 of the previous year through March 31 of the reporting year.	4/30/93	4/30/93

ACCOMPLISHMENTS

- Submitted the 1993 LDR Report for internal contractor review.

PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

- The contractor will issue the preliminary draft 1993 LDR Report for RL review in March 1993.

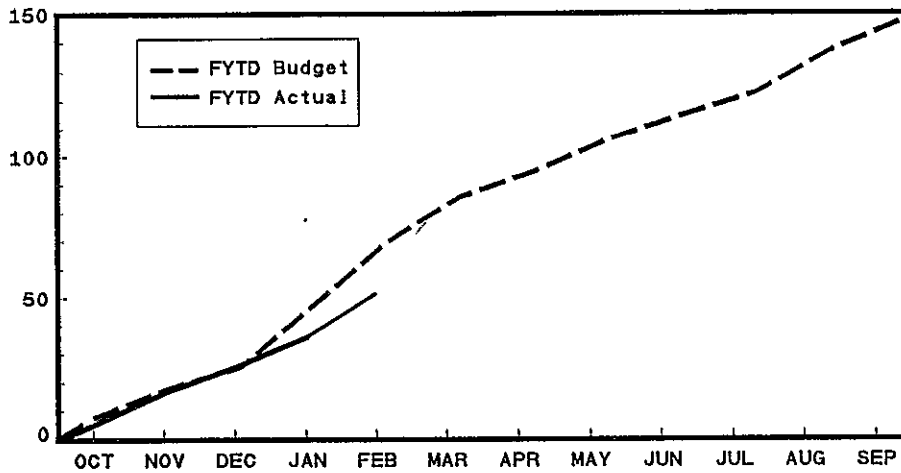
MILESTONE STATUS/PROBLEMS/ISSUES

- This milestone is on schedule.

MILESTONE M-26-00

FY 1993

\$ Thousands



FYTD Budget	7.5	17.7	25.5	47.4	69.4	85.3	94.3	105.8	114.4	122.4	136.6	147.1
FYTD Actual	5.3	16.4	25.1	35.6	52.0							
Spending Var	2.2	1.3	0.4	11.8	17.4							

Note: This chart is done in thousands to provide meaningful data. Budget Baseline Summary table shows zero because it is in millions.

MAJOR MILESTONE: M-30-00
STATUS FOR END OF MONTH: FEBRUARY 1993

DOE DIRECTOR: R. D. Freeberg

MANAGER: T. M. Winctzak

BASELINE DATE: September 1993

PROJECTED DATE: September 1993

DESCRIPTION: Complete integrated general investigations and studies for the 100 Area.

PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

Milestone	Description	Baseline	Projected
M-30-05	Complete installation of all field instrumentation and initiate monitoring activities necessary to perform long-term aquifer river investigations.	9/93	9/93

ACCOMPLISHMENTS

- Completed Revision 2 of the Hanford Baseline Risk Assessment Methodology, incorporating the EPA "Framework for Ecological Risk Assessment."
- Delivered Threatened and Endangered Species Biological Assessment and Bald Eagle Site Management Plan to RL and duplicated it for delivery to U.S. Fish and Wildlife Service and Washington Department of Wildlife.

PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

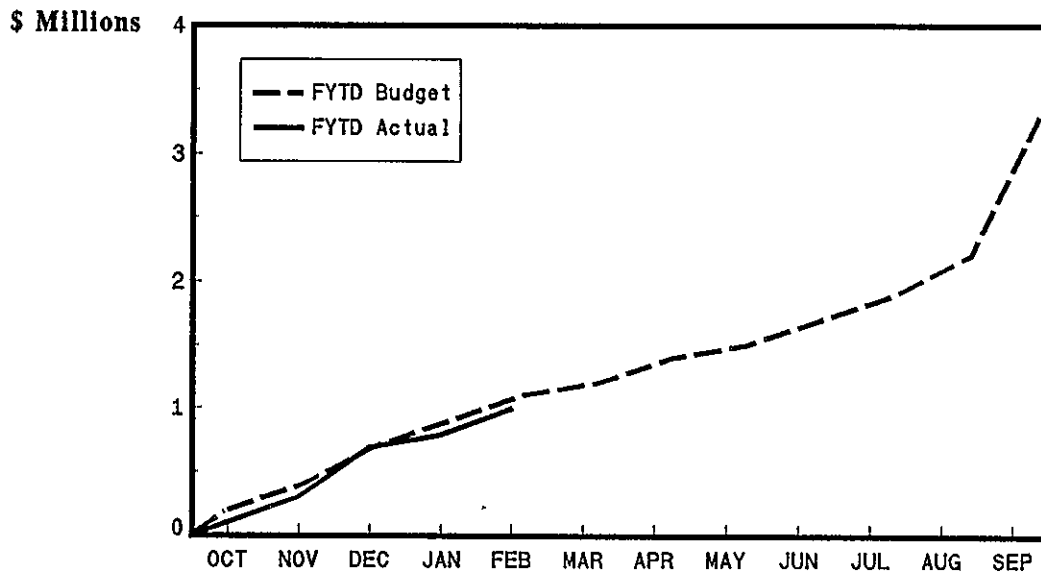
- Issue cultural resource reports in June 1993.
- Complete the second draft of the aquatic investigations after resolving the data validation qualifiers and other concerns.

MILESTONE STATUS/PROBLEMS/ISSUES

- This milestone is on schedule.

MILESTONE M-30-00

FY 1993



FYTD Budget	0.2	0.4	0.7	0.9	1.0	1.2	1.3	1.5	1.7	1.9	2.2	3.6
FYTD Actual	0.0	0.3	0.7	0.8	1.0							
Spending Var	0.2	0.1	0.0	0.1	0.0							

Variance Explanation: None required

MAJOR MILESTONE: M-31-00
STATUS FOR END OF MONTH: FEBRUARY 1993

DOE DIRECTOR: R. W. Brown

MANAGER: R. L. Fritz

BASELINE DATE: TBD

PROJECTED DATE: TBD

DESCRIPTION: Provide additional DST capacity. Construction complete.

PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

Milestone	Description	Baseline	Projected
M-31-02	Recommend additional tank milestones.	09/30/92	08/31/93

ACCOMPLISHMENTS

None.

PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

- Resolve the issues associated with the Ecology denial of Change Request M-31-92-03.
- Continue definitive design of the New Multifunction Waste Tank Facility.

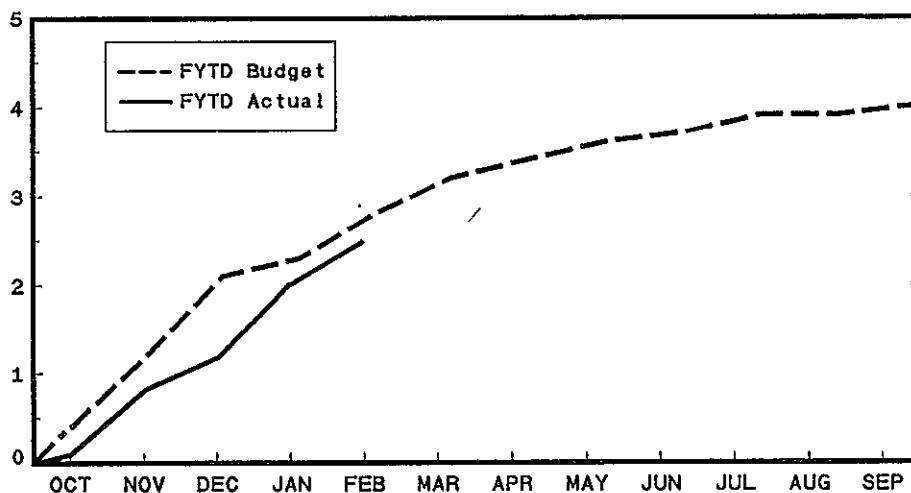
MILESTONE STATUS/PROBLEMS/ISSUES

- Ecology reviewed meeting minutes for the August Tri-Party Agreement milestone management review meeting and concluded that the delay in submitting Milestone M-31-02, "Recommend Additional Tank Milestones," had been discussed at the Project Managers' meeting well in advance of the actual submittal of the change request. Ecology verbally recommended that the change request be accepted as written.

MILESTONE M-31-00

FY 1993

\$ Millions



FYTD Budget	0.4	1.2	2.1	2.3	2.8	3.2	3.4	3.6	3.7	3.9	3.9	4.0
FYTD Actual	0.0	0.8	1.2	2.0	2.5							
Spending Var	0.4	0.4	0.9	0.3	0.3							

Variance Explanation: The underrun is due to the test coupons contract not being costed. Limited work scope on capital gunds project authorization is limiting expense funds and the ramp-up of personnel is slower than expected.

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